SONY

KP5010PS

MODEL

SERVICE MANUAL

SPECIFICATIONS

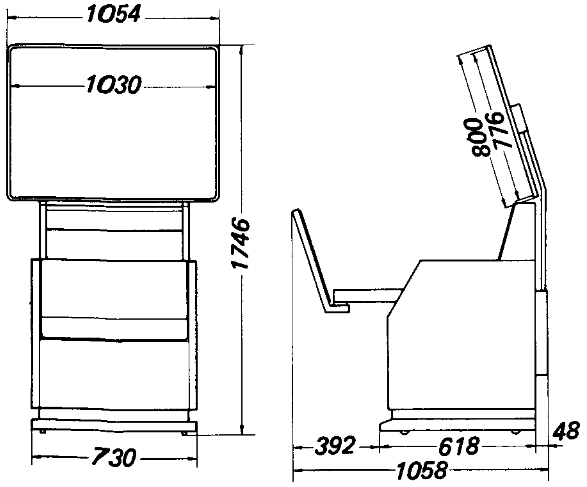
Projected Picture Size:	127 cm (50 inches) diagonally (KP-5010PS) 183 cm (72 inches) diagonally (KP-7210PS)
Audience Area:	Viewing distance: 3 m (10 ft) minimum to 15 m (49 ft) maximum for KP-5010PS 5 m (16 ft) minimum to 25 m (82 ft) maximum for KP-7210PS Optimum seating arrangement: approx. 35° from center
Projected Picture Brightness:	More than 60 fL (white peak) (KP-5010PS) More than 30 fL (white peak) (KP-7210PS)
Projected Contrast Ratio:	More than 30 : 1 (in darkened room)
Screen:	Aluminum foil screen
Picture Tube:	20.3 cm, 8" high bright monochrome tube
Semiconductors:	191 transistors, 5 ICs, 118 diodes and 1 thyristor
Anode Voltage:	27 kV at zero beam current
Intermediate Output Power:	5 W (at 10 % harmonic distortion)
Speaker:	20 cm (8 inches), 8 Ω
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) AFC (automatic frequency control) ANC (automatic noise canceller) AVR (automatic voltage regulator)

Input:

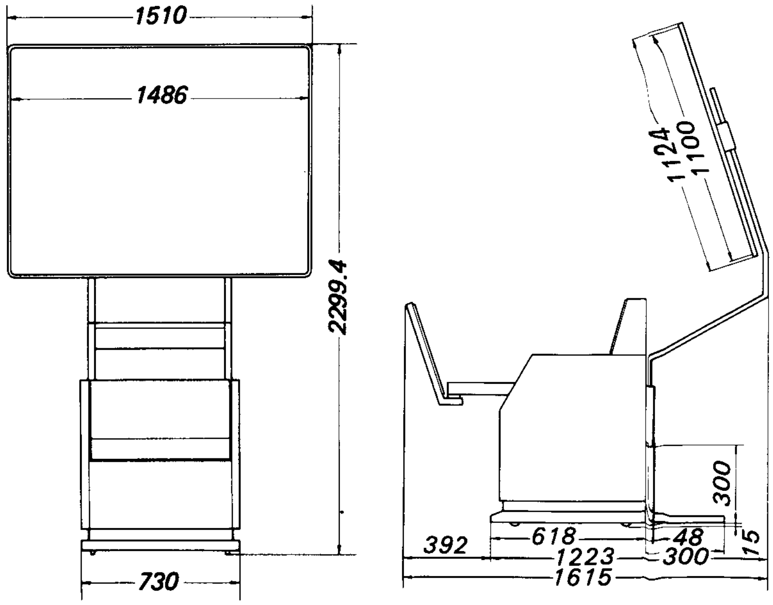
Signal	Connector	Signal level	Remarks
VIDEO IN	LINE BNC coaxial connector	1Vp-p	PAL, SECAM, NTSC, 4.43MHz, 75Ω, sync negative
AUDIO IN	LINE Minijack	−5dB (0.44V)	high impedance
	8-pin connector	−20dB (0.77V)	

Power Requirements:	220 V ac, 50/60 Hz
Power Consumption:	258 W (max.)
Dimensions:	50" screen: approx. 1054 (w) x 1746 (h) x 1058 (d) mm 41 ½ (w) x 68 ¾ (h) x 28 ¼ (d) inches 72" screen: approx. 1510 (w) x 2299.4 (h) x 1614.2 (d) mm 59 ½ (w) x 90 ½ (h) x 63 ½ (d) inches
Weight:	Approx. 96 kg, 211 lb 10 oz (KP-5010PS) Approx. 101 kg, 222 lb 11oz (KP-7210PS) including screen
Accessories Supplied:	50-inch (KP-5010PS) or 72-inch (KP-7210PS) screen (diagonal measurement) Screen support assembly AC power cord Polishing cloth

KP-5010PS



KP-7210PS



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     - GA Board 59
     - Z Board. 62
     - Q Board. 63
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     - EB Board. 70
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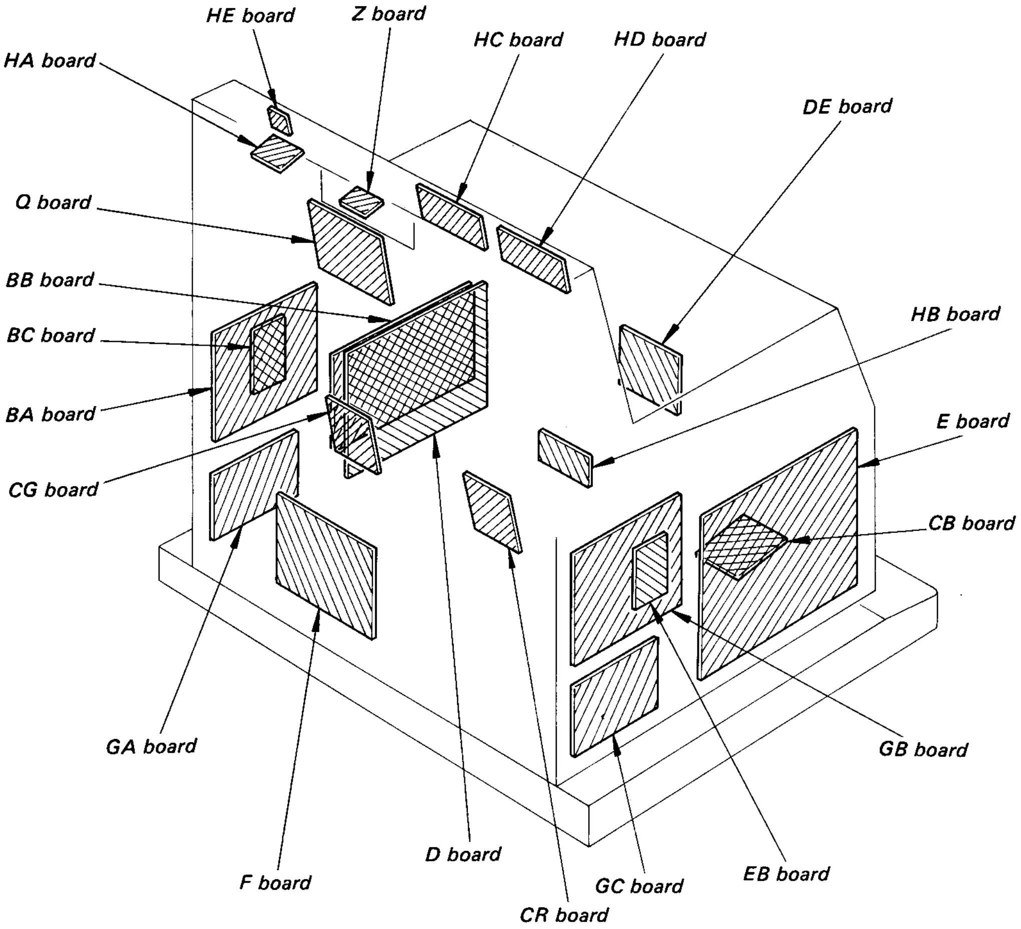
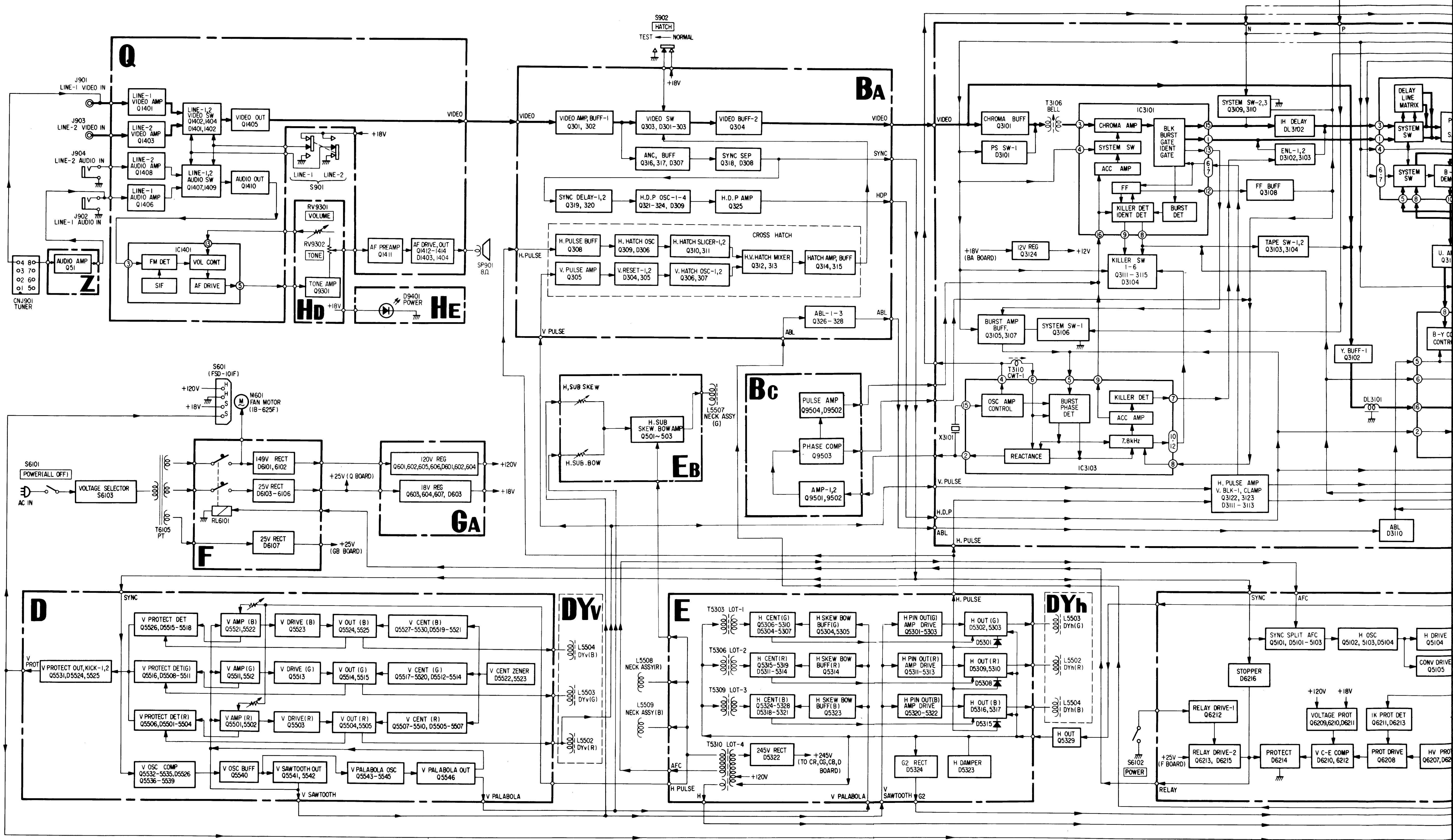
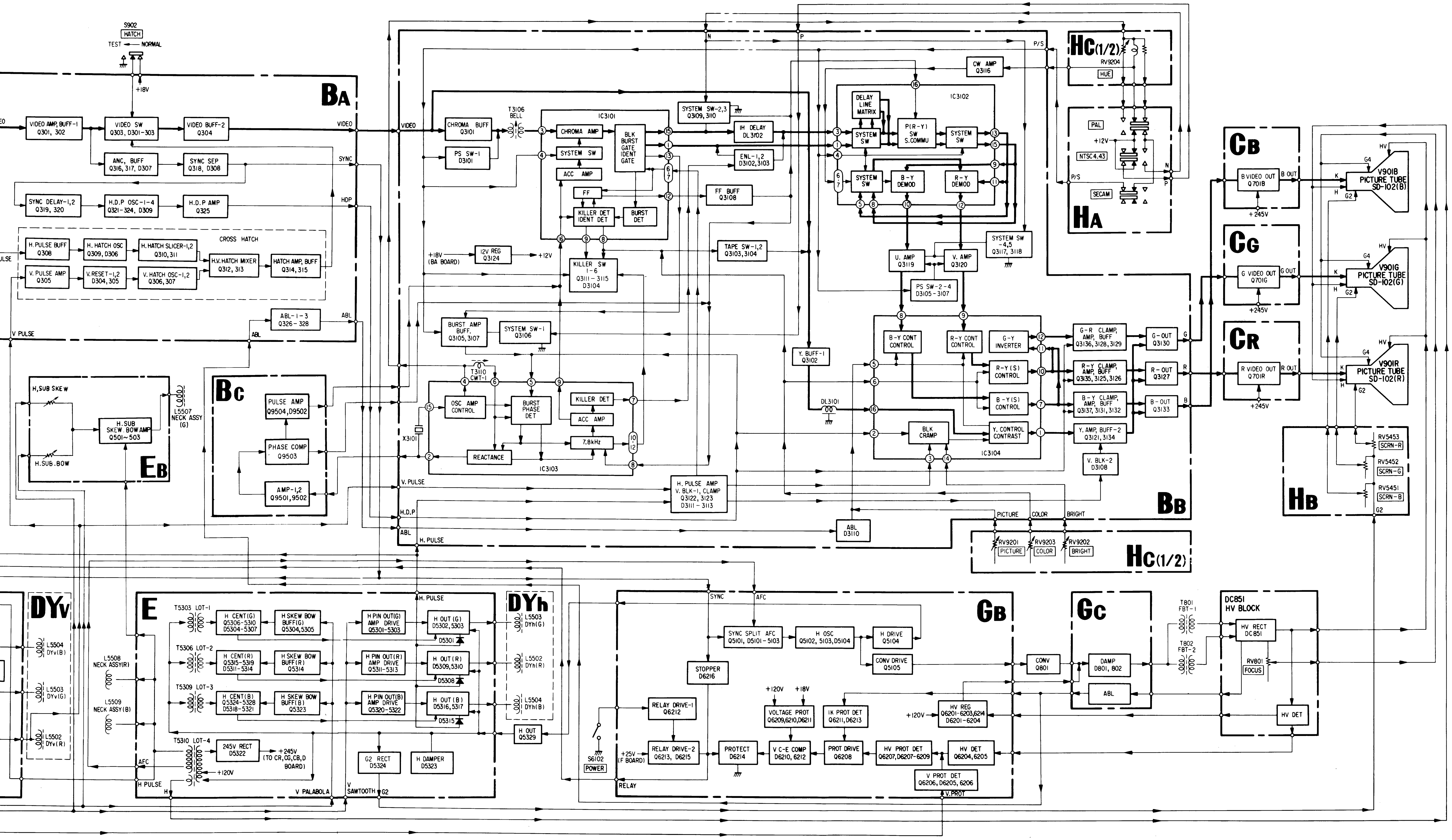
CIRCUIT BOARDS LOCATION


HE board
Z board
HA board
HC board
HD board
DE board
Q board
BB board
BC board
HB board
BA board
E board
CG board
CB board
GA board
GB board
D board
F board
GC board
EB board
CR board

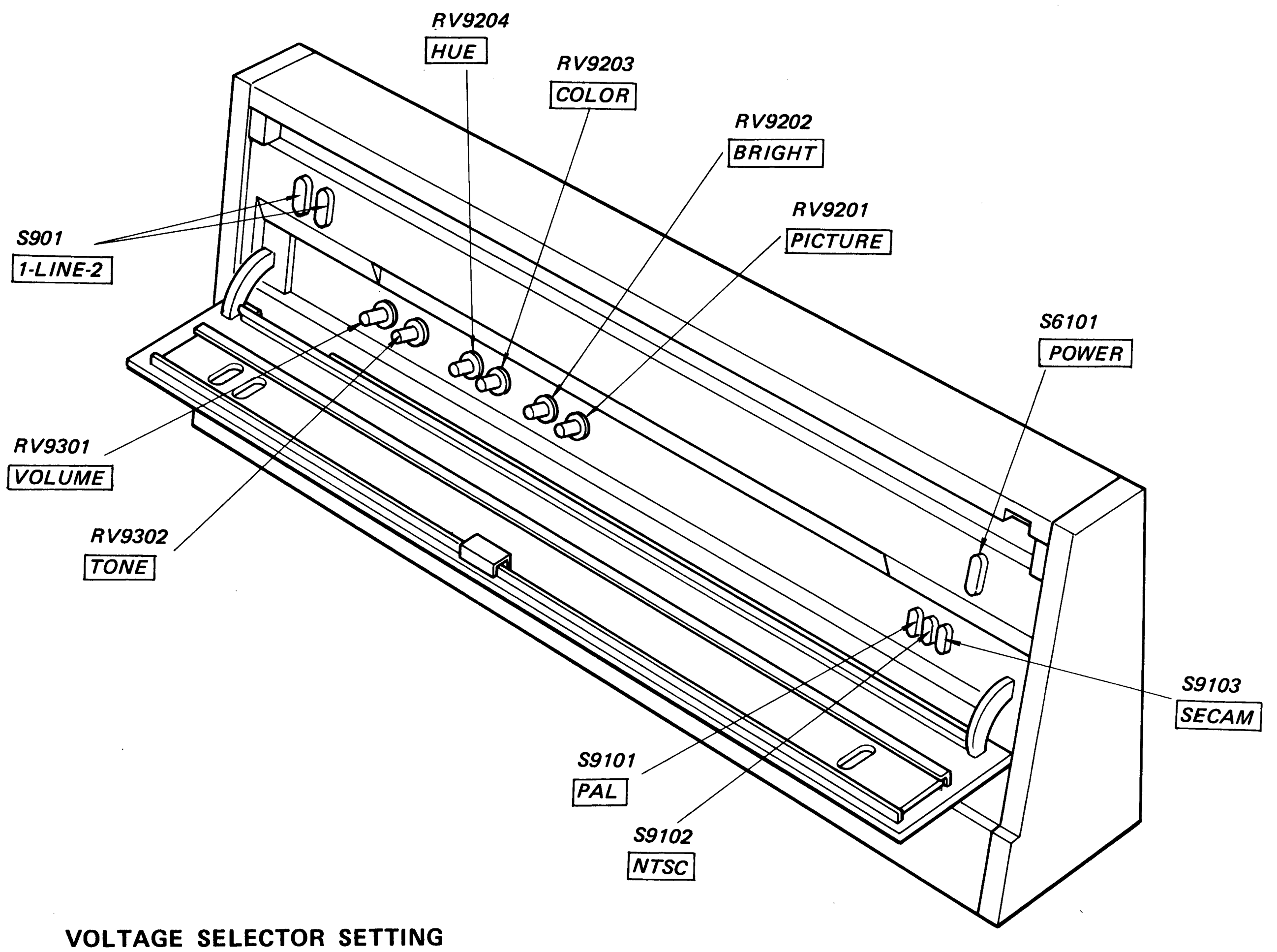
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM


Q
J901 LINE-1 VIDEO IN
J903 LINE-2 VIDEO IN
J904 LINE-2 AUDIO IN
J902 LINE-1 AUDIO IN
LINE-1 VIDEO AMP Q1401
LINE-2 VIDEO AMP Q1403
LINE-2 AUDIO AMP Q1408
LINE-1 AUDIO AMP Q1406
LINE-1,2 VIDEO SW Q1402,1404 Q1401,1402
LINE-1,2 AUDIO SW Q1407,1409
VIDEO OUT Q1405
AUDIO OUT Q1410
IC1401
FM DET
VOL CONT
SIF
AF DRIVE
AUDIO AMP Q51
Z
CNJ901 TUNER
S901 LINE-1 LINE-2
+18V
RV9301 VOLUME
RV9302 TONE
TONE AMP Q9301
AF PREAMP Q1411
AF DRIVE, OUT Q1412-1414 D1403,1404
SP901 8Ω
HD
HE
D9401 POWER
S902 HATCH TEST NORMAL
BA
VIDEO
VIDEO AMP, BUFF-1 Q301, 302
VIDEO SW Q303, D301-303
VIDEO BUFF-2 Q304
ANC, BUFF Q316, 317, D307
SYNC SEP Q318, D308
SYNC DELAY-1,2 Q319, 320
H.D.P OSC-1-4 Q321-324, D309
H.D.P AMP Q325
SYNC
HDP
CROSS HATCH
H.PULSE BUFF Q308
H.HATCH OSC Q309, D306
H.HATCH SLICER-1,2 Q310, 311
H.V. HATCH MIXER Q312, 313
HATCH AMP, BUFF Q314, 315
V. PULSE AMP Q305
V.RESET-1,2 D304, 305
V. HATCH OSC-1,2 Q306, 307
H.PULSE
V PULSE
ABL-1-3 Q326-328
ABL
S601 (FSD-101F)
M601 FAN MOTOR (1B-625F)
+120V
+18V
S6101 POWER(ALL OFF)
AC IN
VOLTAGE SELECTOR S6103
T6105 PT
149V RECT D6101, 6102
25V RECT D6103-6106
RL6101
25V RECT D6107
+25V (Q BOARD)
+25V (GB BOARD)
F
120V REG Q601,602,605,606,D601,602,604
18V REG Q603,604,607, D603
GA
H.SUB SKEW
H.SUB.BOW
H.SUB SKEW BOW AMP Q501~503
L5507 NECK ASSY (G)
EB
BC
PULSE AMP Q9504,Q9502
PHASE COMP Q9503
AMP-1,2 Q9501,9502
CHROMA BUFF Q3101
PS SW-1 D3101
T3106 BELL
IC3101
CHROMA AMP
SYSTEM SW
ACC AMP
FF
KILLER DET IDENT DET
BURST DET
BLK BURST GATE IDENT GATE
SYSTEM SW-2,3 Q3109, 3110
1H DELAY DL3102
ENL-1,2 D3102,3103
FF BUFF Q3108
DELAY LINE MATRIX
SYSTEM SW
+18V (BA BOARD)
12V REG Q3124
+12V
KILLER SW 1-6 Q3111-3115 D3104
TAPE SW-1,2 Q3103,3104
BURST AMP BUFF. Q3105, 3107
SYSTEM SW-1 Q3106
T3110 CWT-1
OSC AMP CONTROL
BURST PHASE DET
KILLER DET
ACC AMP
7.8kHz
REACTANCE
IC3103
X3101
Y. BUFF-1 Q3102
DL3101
B-Y CONTR
V. PULSE
H.D.P
H. PULSE
H. PULSE AMP V. BLK-1, CLAMP Q3122, 3123 D3111-3113
ABL D3110
N
P
D
SYNC
V PROT
V PROTECT OUT, KICK-1,2 Q5531,D5524,5525
V PROTECT DET Q5526,D5515-5518
V PROTECT DET(G) Q5516,D5508-5511
V PROTECT DET(R) Q5506,D5501-5504
V AMP (B) Q5521,5522
V AMP (G) Q5511,5512
V AMP (R) Q5501,5502
V DRIVE (B) Q5523
V DRIVE (G) Q5513
V DRIVE(R) Q5503
V OUT (B) Q5524,5525
V OUT (G) Q5514,5515
V OUT (R) Q5504,5505
V CENT (B) Q5527-5530,D5519-5521
V CENT (G) Q5517-5520, D5512-5514
V CENT (R) Q5507-5510, D5505-5507
V CENT ZENER D5522,5523
V OSC COMP Q5532-5535,D5526 Q5536-5539
V OSC BUFF Q5540
V SAWTOOTH OUT Q5541, 5542
V PALABOLA OSC Q5543-5545
V PALABOLA OUT Q5546
V SAWTOOTH
V PALABOLA
DYv
L5504 DYv(B)
L5503 DYv(G)
L5502 DYv(R)
L5508 NECK ASSY(R)
L5509 NECK ASSY(B)
E
T5303 LOT-1
T5306 LOT-2
T5309 LOT-3
T5310 LOT-4
H CENT(G) Q5306-5310 D5304-5307
H CENT(R) Q5315-5319 D5311-5314
H CENT(B) Q5324-5328 D5318-5321
H SKEW BOW BUFF(G) Q5304,5305
H SKEW BOW BUFF(R) Q5314
H SKEW BOW BUFF(B) Q5323
H PIN OUT(G) AMP DRIVE Q5301-5303
H PIN OUT(R) AMP DRIVE Q5311-5313
H PIN OUT(B) AMP DRIVE Q5320-5322
H OUT (G) Q5302, 5303
H OUT (R) Q5309,5310
H OUT (B) Q5316, 5317
D5301
D5308
D5315
H OUT Q5329
245V RECT D5322
+245V (TO CR,CG,CB,D BOARD)
+120V
G2 RECT D5324
H DAMPER D5323
AFC
H PULSE
V PALABOLA
V SAWTOOTH
G2
DYh
L5503 DYh(G)
L5502 DYh(R)
L5504 DYh(B)
S6102 POWER
+25V (F BOARD)
SYNC
AFC
SYNC SPLIT AFC Q5101, D5101-5103
H OSC Q5102, 5103,D5104
H DRIVE Q5104
CONV DRIVE Q5105
STOPPER D6216
RELAY DRIVE-1 Q6212
RELAY DRIVE-2 Q6213, D6215
PROTECT D6214
+120V +18V
VOLTAGE PROT Q6209,6210,D6211
V C-E COMP D6210, 6212
IK PROT DET Q6211,D6213
PROT DRIVE Q6208
HV PROT Q6207,D62
RELAY

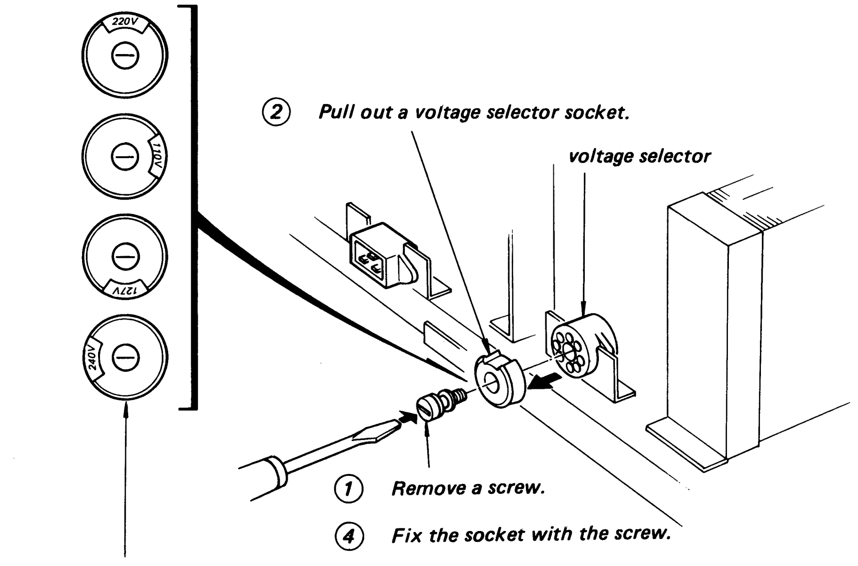

S902
HATCH
TEST
NORMAL
+18V
BA
VIDEO AMP, BUFF-1
Q301, 302
VIDEO SW
Q303, D301-303
VIDEO BUFF-2
Q304
VIDEO
ANC, BUFF
Q316, 317, D307
SYNC SEP
Q318, D308
SYNC
SYNC DELAY-1,2
Q319, 320
H.D.P OSC-1-4
Q321-324, D309
H.D.P AMP
Q325
HDP
CROSS HATCH
H.PULSE BUFF
Q308
H. HATCH OSC
Q309, D306
H. HATCH SLICER-1,2
Q310, 311
H.V. HATCH MIXER
Q312, 313
HATCH AMP, BUFF
Q314, 315
V. PULSE AMP
Q305
V. RESET-1,2
D304, 305
V. HATCH OSC-1,2
Q306, 307
ABL-1-3
Q326-328
ABL
V PULSE
H.SUB SKEW
H.SUB BOW
H.SUB SKEW BOW AMP
Q501~503
L5507
NECK ASSY
(G)
EB
BC
PULSE AMP
Q9504, D9502
PHASE COMP
Q9503
AMP-1,2
Q9501, 9502
CHROMA BUFF
Q3101
PS SW-1
D3101
T3106
BELL
IC3101
CHROMA AMP
SYSTEM SW
ACC AMP
BLK BURST GATE IDENT GATE
FF
KILLER DET IDENT DET
BURST DET
KILLER SW 1-6
Q3111-3115
D3104
+18V
(BA BOARD)
12V REG
Q3124
+12V
SYSTEM SW-2,3
Q3109, 3110
1H DELAY
DL3102
ENL-1,2
D3102, 3103
FF BUFF
Q3108
TAPE SW-1,2
Q3103, 3104
BURST AMP BUFF.
Q3105, 3107
SYSTEM SW-1
Q3106
T3110
CWT-1
OSC AMP CONTROL
BURST PHASE DET
KILLER DET
ACC AMP
7.8kHz
REACTANCE
X3101
IC3103
V. PULSE
H.D.P
ABL
H. PULSE
H. PULSE AMP
V. BLK-1, CLAMP
Q3122, 3123
D3111-3113
ABL
D3110
N
P
P/S
CW AMP
Q3116
IC3102
DELAY LINE MATRIX
P(R-Y) SW S.COMMU
SYSTEM SW
SYSTEM SW
B-Y DEMOD
R-Y DEMOD
SYSTEM SW -4,5
Q3117, 3118
U. AMP
Q3119
V. AMP
Q3120
PS SW-2-4
D3105-3107
Y. BUFF-1
Q3102
DL3101
B-Y CONT CONTROL
R-Y CONT CONTROL
G-Y INVERTER
R-Y(S) CONTROL
B-Y(S) CONTROL
BLK CRAMP
Y. CONTROL CONTRAST
IC3104
G-R CLAMP, AMP, BUFF
Q3136, 3128, 3129
R-Y CLAMP, AMP, BUFF
Q3135, 3125, 3126
B-Y CLAMP, AMP, BUFF
Q3137, 3131, 3132
Y. AMP, BUFF-2
Q3121, 3134
V. BLK-2
D3108
G-OUT
Q3130
R-OUT
Q3127
B-OUT
Q3133
G
R
B
BB
PICTURE
COLOR
BRIGHT
RV9201
PICTURE
RV9203
COLOR
RV9202
BRIGHT
HC(1/2)
HC(1/2)
RV9204
HUE
PAL
+12V
NTSC4.43
SECAM
P/S
N
P
HA
CB
B VIDEO OUT
Q701B
B OUT
+245V
V901B
PICTURE TUBE
SD-102(B)
CG
G VIDEO OUT
Q701G
G OUT
+245V
V901G
PICTURE TUBE
SD-102(G)
CR
R VIDEO OUT
Q701R
R OUT
+245V
V901R
PICTURE TUBE
SD-102(R)
G4
HV
K
H
G2
HB
RV5453
SCRN-R
RV5452
SCRN-G
RV5451
SCRN-B
G2
DYV
L5504
DYV(B)
L5503
DYV(G)
L5502
DYV(R)
L5508
NECK ASSY(R)
L5509
NECK ASSY(B)
E
T5303 LOT-1
H CENT(G)
Q5306-5310
D5304-5307
H SKEW BOW BUFF(G)
Q5304, 5305
T5306 LOT-2
H CENT(R)
Q5315-5319
D5311-5314
H SKEW BOW BUFF(R)
Q5314
T5309 LOT-3
H CENT(B)
Q5324-5328
D5318-5321
H SKEW BOW BUFF(B)
Q5323
T5310 LOT-4
245V RECT
D5322
+245V
(TO CR, CG, CB, D BOARD)
+120V
AFC
H PULSE
H
V PALABOLA
V SAWTOOTH
G2
H PIN OUT(G) AMP DRIVE
Q5301-5303
H PIN OUT(R) AMP DRIVE
Q5311-5313
H PIN OUT(B) AMP DRIVE
Q5320-5322
H OUT (G)
D5302, 5303
D5301
H OUT (R)
D5309, 5310
D5308
H OUT (B)
D5316, 5317
D5315
G2 RECT
D5324
H DAMPER
D5323
H OUT
Q5329
H. PULSE
DYh
L5503
DYh(G)
L5502
DYh(R)
L5504
DYh(B)
GB
SYNC
AFC
SYNC SPLIT AFC
Q5101, D5101-5103
H OSC
Q5102, 5103, D5104
H DRIVE
Q5104
CONV DRIVE
Q5105
STOPPER
D6216
RELAY DRIVE-1
Q6212
RELAY DRIVE-2
Q6213, D6215
+25V
(F BOARD)
S6102
POWER
RELAY
PROTECT
D6214
+120V
+18V
VOLTAGE PROT
Q6209, 6210, D6211
V C-E COMP
D6210, 6212
IK PROT DET
Q6211, D6213
PROT DRIVE
Q6208
HV PROT DET
Q6207, D6207-6209
HV DET
Q6204, 6205
V PROT DET
Q6206, D6205, 6206
V. PROT
+120V
HV REG
Q6201-6203, 6214
D6201-6204
GC
CONV
Q801
DAMP
D801, 802
ABL
T801
FBT-1
T802
FBT-2
DC851
HV BLOCK
HV RECT
DC851
RV801
FOCUS
HV DET

1-2. CONTROL PANEL VIEW


RV9204
HUE
RV9203
COLOR
RV9202
BRIGHT
RV9201
PICTURE
S901
1-LINE-2
S6101
POWER
RV9301
VOLUME
RV9302
TONE
S9103
SECAM
S9101
PAL
S9102
NTSC

VOLTAGE SELECTOR SETTING

Set the voltage selector as shown below.


220V
110V
127V
240V
voltage selector

② Pull out a voltage selector socket.

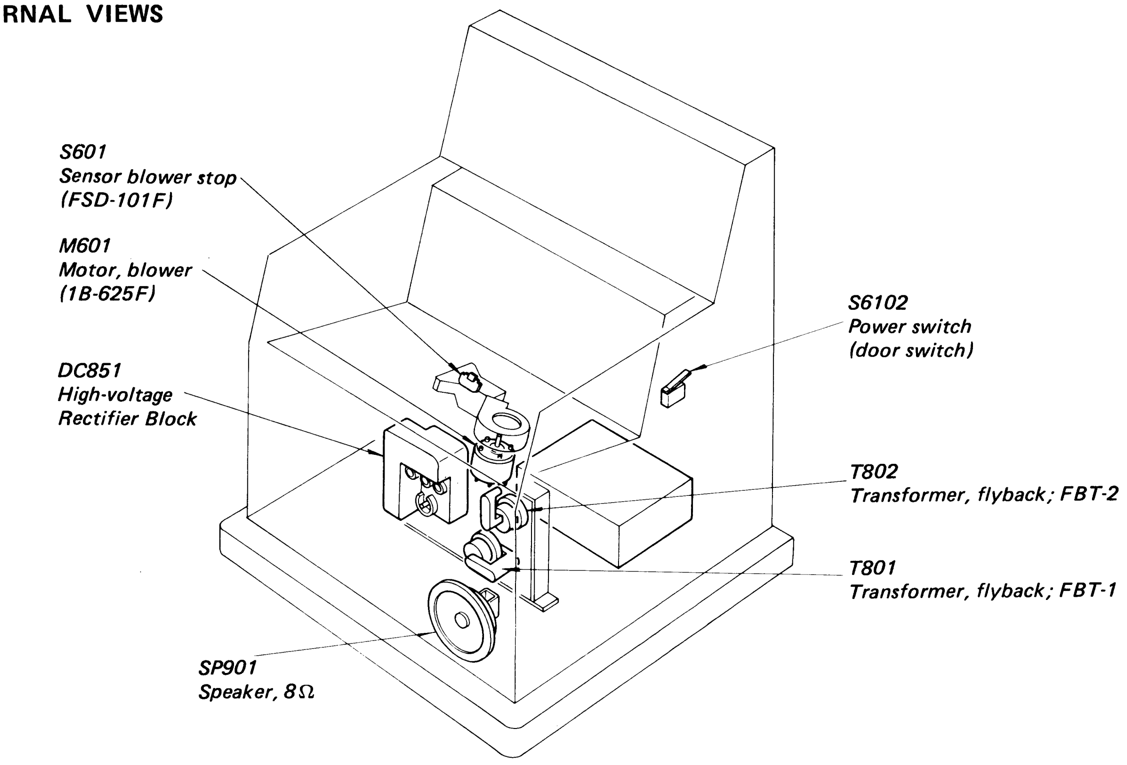
① Remove a screw.

④ Fix the socket with the screw.

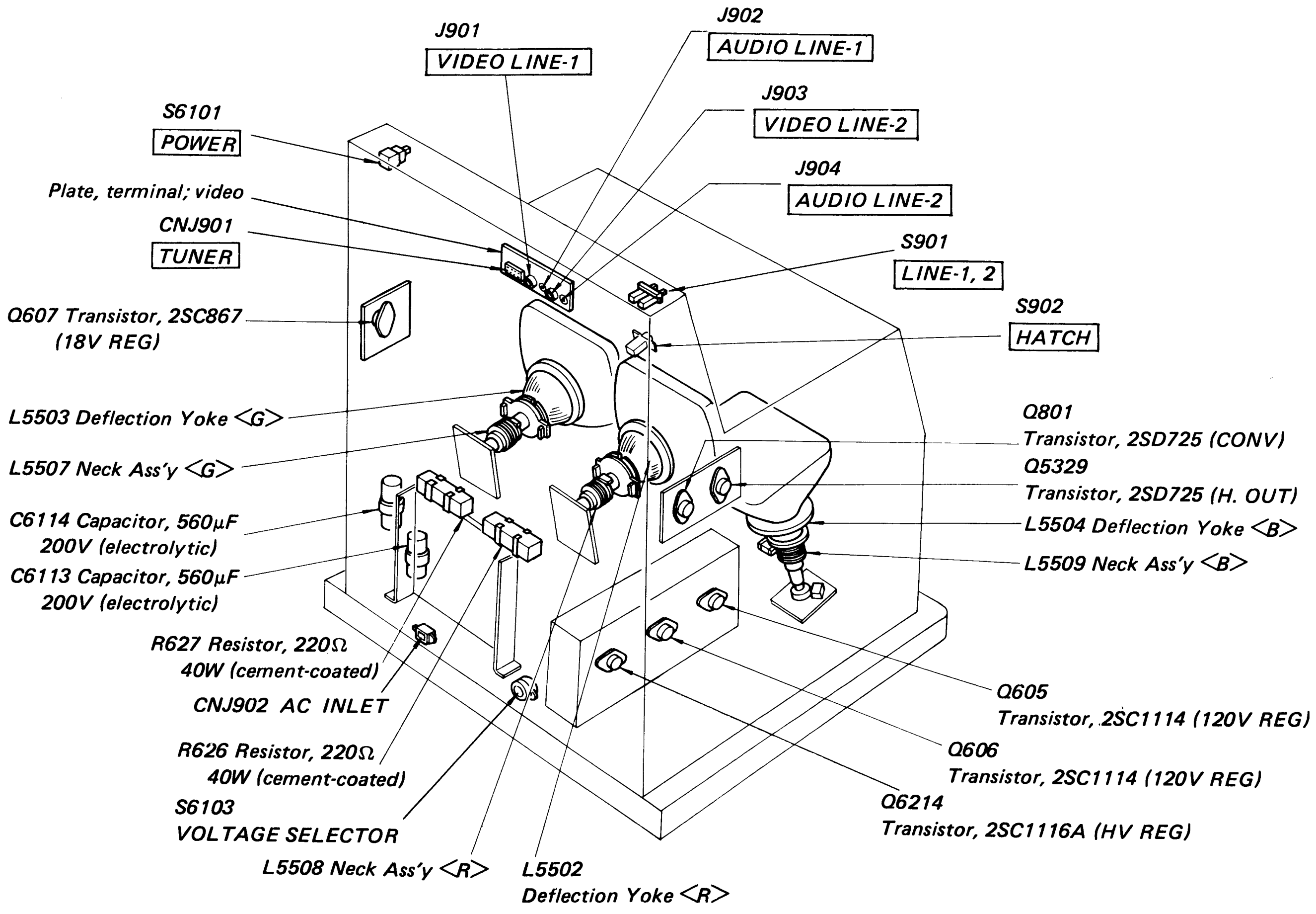
③ Position the voltage selector socket to desired voltage.

1-3. INTERNAL VIEWS

(1)


S601
Sensor blower stop
(FSD-101F)
M601
Motor, blower
(1B-625F)
DC851
High-voltage
Rectifier Block
S6102
Power switch
(door switch)
T802
Transformer, flyback; FBT-2
T801
Transformer, flyback; FBT-1
SP901
Speaker, 8Ω

(2)


J901
VIDEO LINE-1
J902
AUDIO LINE-1
J903
VIDEO LINE-2
J904
AUDIO LINE-2
S6101
POWER
Plate, terminal; video
CNJ901
TUNER
S901
LINE-1, 2
S902
HATCH
Q607 Transistor, 2SC867
(18V REG)
L5503 Deflection Yoke <G>
L5507 Neck Ass'y <G>
Q801
Transistor, 2SD725 (CONV)
Q5329
Transistor, 2SD725 (H. OUT)
L5504 Deflection Yoke <B>
L5509 Neck Ass'y <B>
C6114 Capacitor, 560μF
200V (electrolytic)
C6113 Capacitor, 560μF
200V (electrolytic)
R627 Resistor, 220Ω
40W (cement-coated)
CNJ902 AC INLET
R626 Resistor, 220Ω
40W (cement-coated)
S6103
VOLTAGE SELECTOR
L5508 Neck Ass'y <R>
L5502
Deflection Yoke <R>
Q605
Transistor, 2SC1114 (120V REG)
Q606
Transistor, 2SC1114 (120V REG)
Q6214
Transistor, 2SC1116A (HV REG)

2-1. CABI

2-2. MIRR

Note:

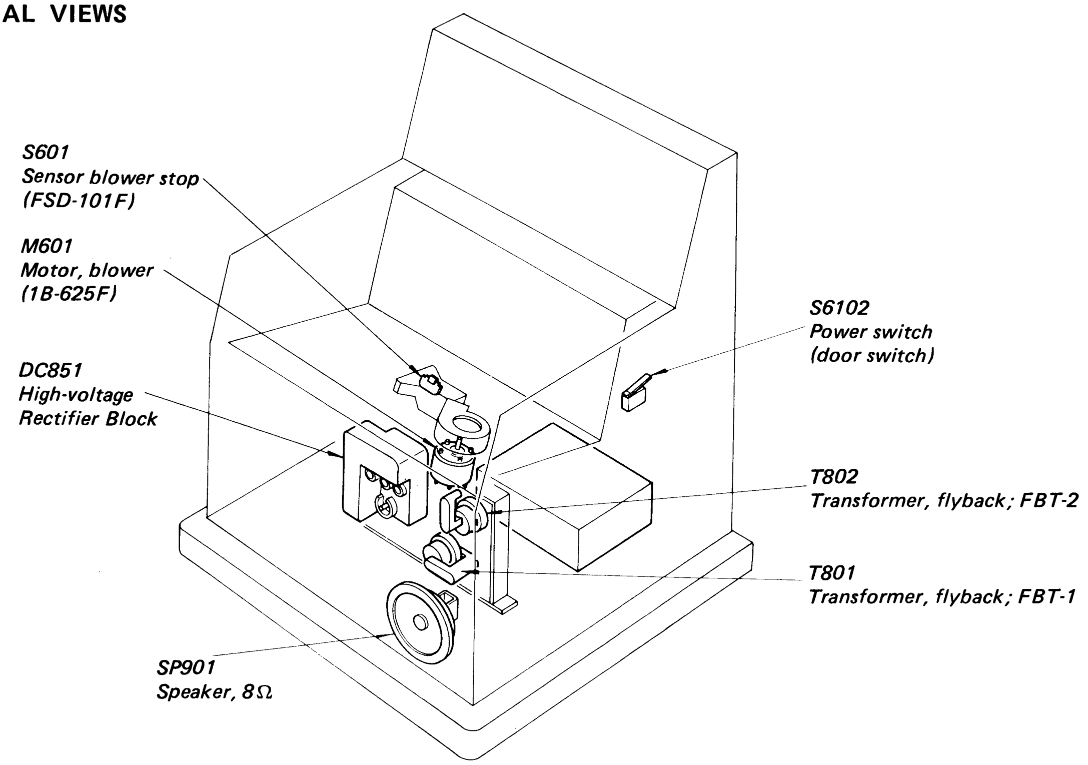
⑤ Remove

② Re
(TA

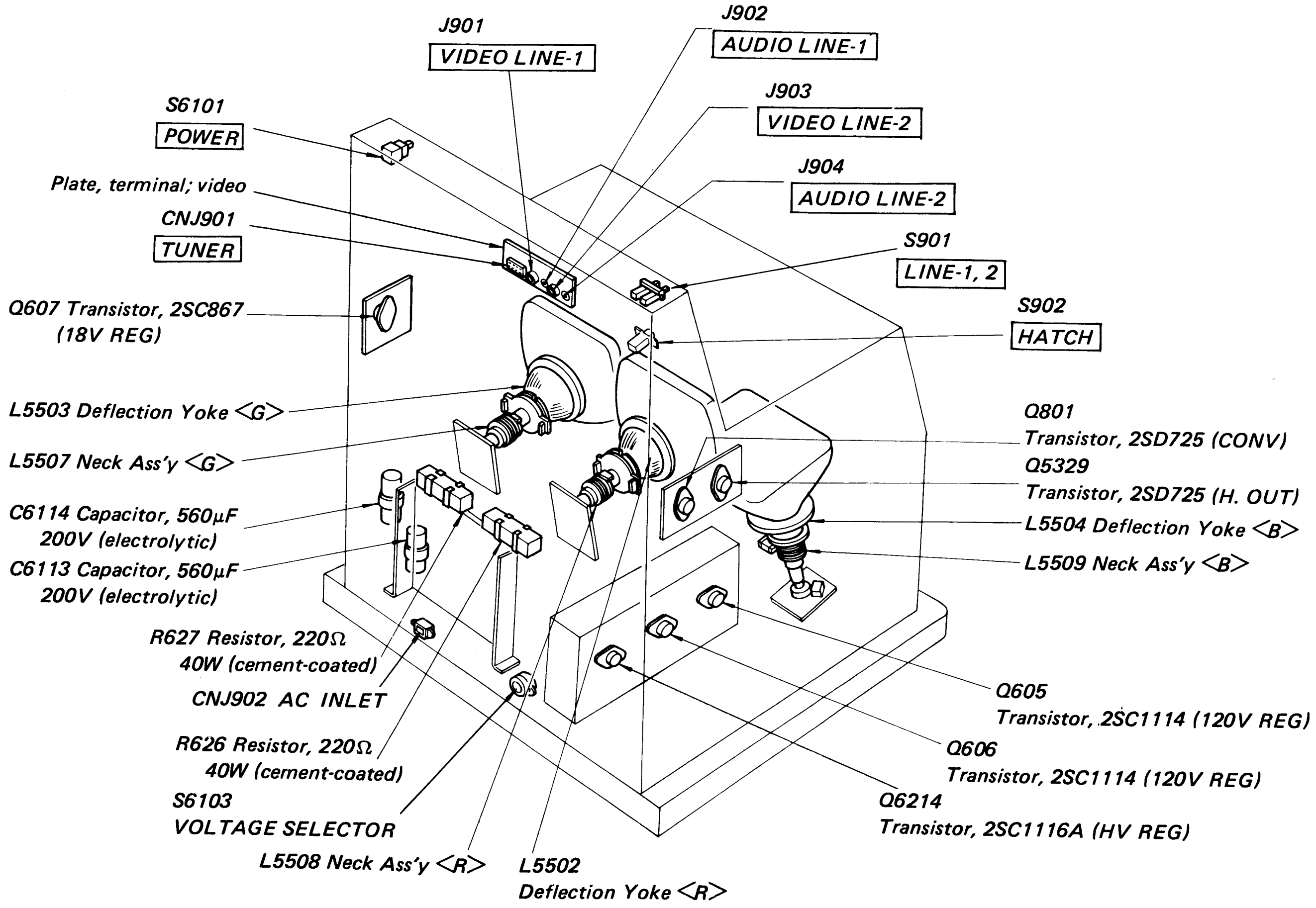
④ Pu

1-3. INTERNAL VIEWS

(1)


S601
Sensor blower stop
(FSD-101F)
M601
Motor, blower
(1B-625F)
DC851
High-voltage
Rectifier Block
S6102
Power switch
(door switch)
T802
Transformer, flyback; FBT-2
T801
Transformer, flyback; FBT-1
SP901
Speaker, 8Ω

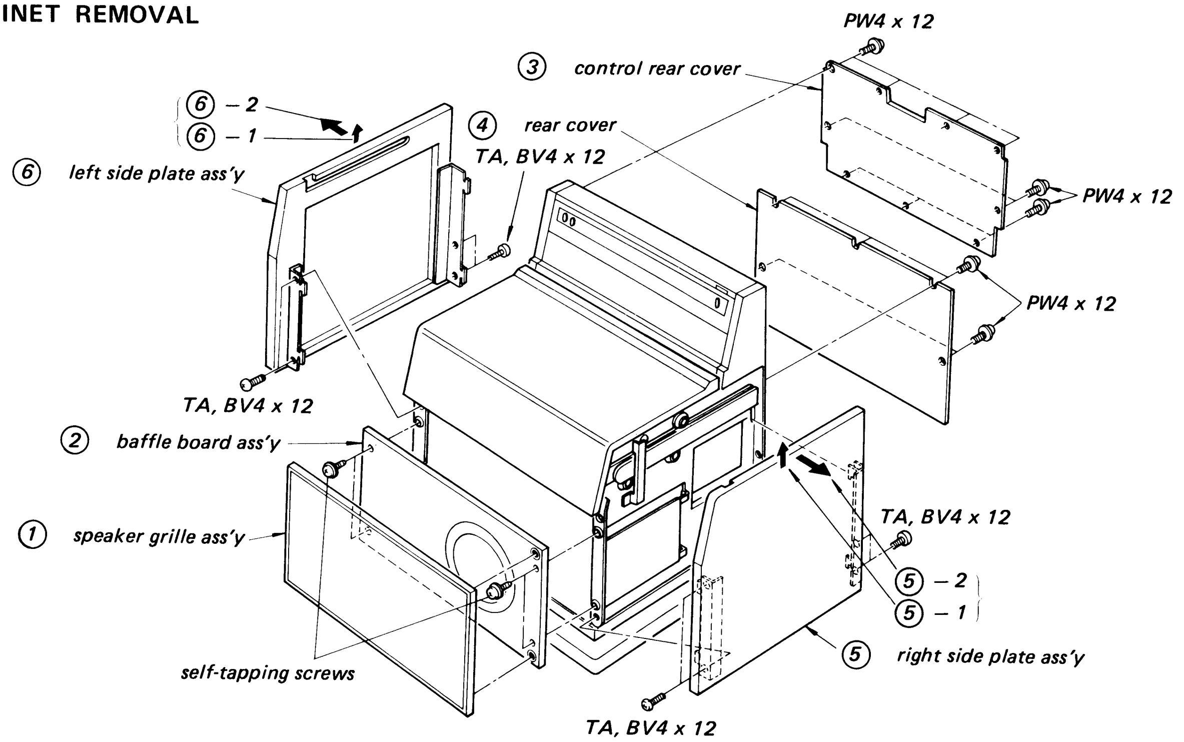
(2)


J901
VIDEO LINE-1
J902
AUDIO LINE-1
J903
VIDEO LINE-2
J904
AUDIO LINE-2
S6101
POWER
Plate, terminal; video
CNJ901
TUNER
S901
LINE-1, 2
S902
HATCH
Q607 Transistor, 2SC867
(18V REG)
L5503 Deflection Yoke <G>
L5507 Neck Ass'y <G>
C6114 Capacitor, 560μF
200V (electrolytic)
C6113 Capacitor, 560μF
200V (electrolytic)
R627 Resistor, 220Ω
40W (cement-coated)
CNJ902 AC INLET
R626 Resistor, 220Ω
40W (cement-coated)
S6103
VOLTAGE SELECTOR
L5508 Neck Ass'y <R>
L5502
Deflection Yoke <R>
Q801
Transistor, 2SD725 (CONV)
Q5329
Transistor, 2SD725 (H. OUT)
L5504 Deflection Yoke <B>
L5509 Neck Ass'y <B>
Q605
Transistor, 2SC1114 (120V REG)
Q606
Transistor, 2SC1114 (120V REG)
Q6214
Transistor, 2SC1116A (HV REG)

SECTION 2
DISASSEMBLY AND REPLACMENT

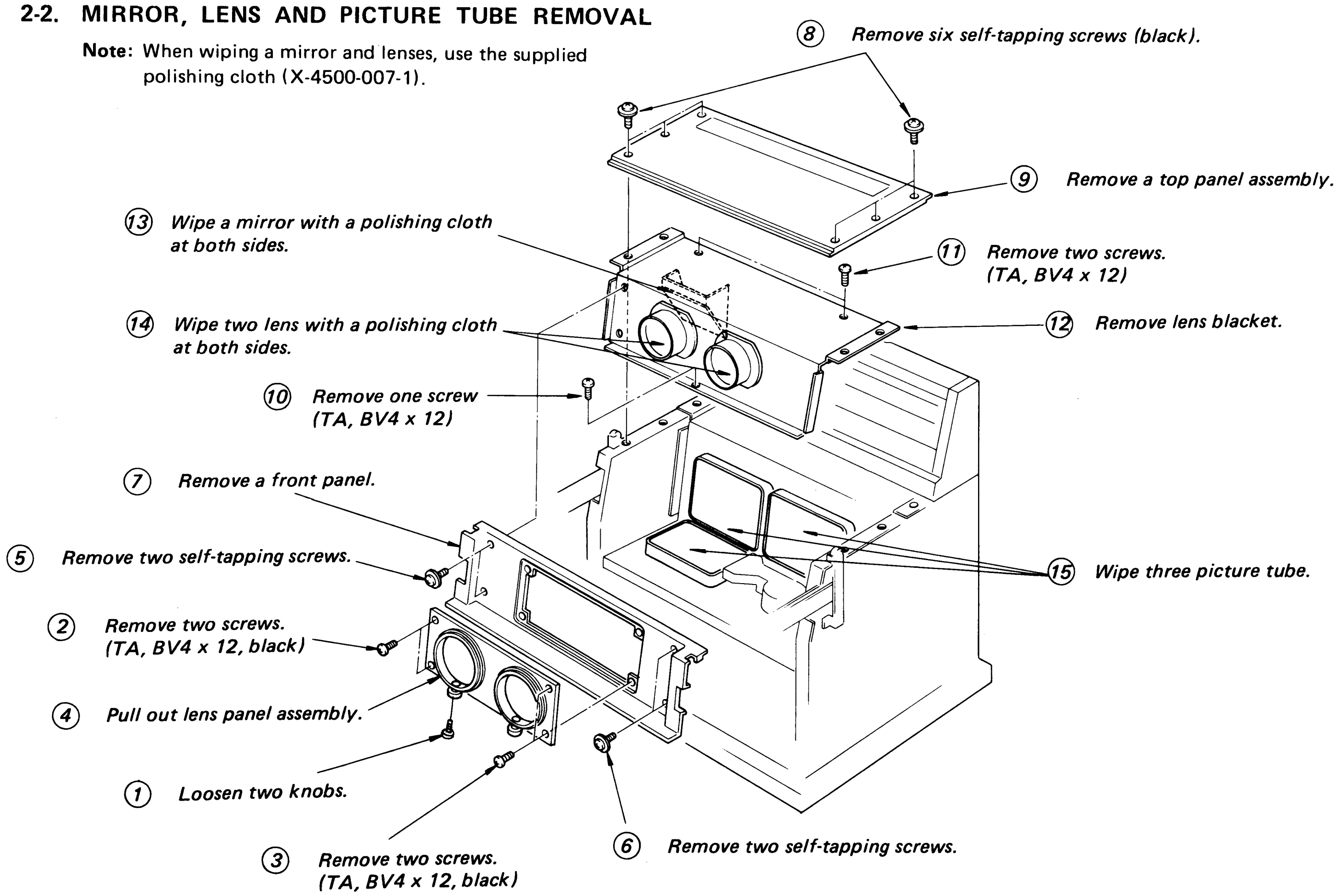
Note:
- Follow the disassembly procedure in the numerical order given.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

2-1. CABINET REMOVAL

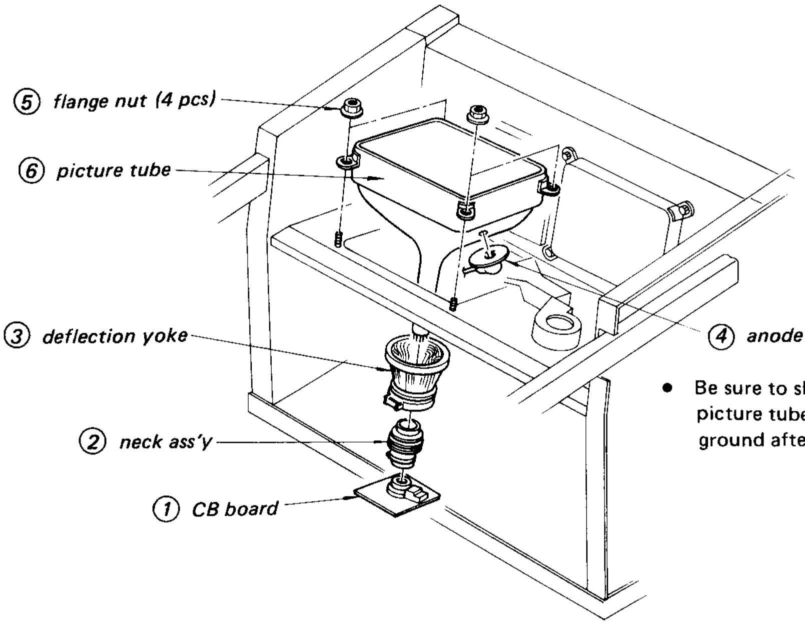

PW4 x 12
③ control rear cover
⑥ – 2
⑥ – 1
④ rear cover
TA, BV4 x 12
⑥ left side plate ass'y
PW4 x 12
PW4 x 12
TA, BV4 x 12
② baffle board ass'y
① speaker grille ass'y
TA, BV4 x 12
⑤ – 2
⑤ – 1
⑤ right side plate ass'y
self-tapping screws
TA, BV4 x 12

2-2. MIRROR, LENS AND PICTURE TUBE REMOVAL

Note: When wiping a mirror and lenses, use the supplied polishing cloth (X-4500-007-1).


⑧ Remove six self-tapping screws (black).
⑨ Remove a top panel assembly.
⑬ Wipe a mirror with a polishing cloth at both sides.
⑪ Remove two screws. (TA, BV4 x 12)
⑭ Wipe two lens with a polishing cloth at both sides.
⑫ Remove lens blacket.
⑩ Remove one screw (TA, BV4 x 12)
⑦ Remove a front panel.
⑤ Remove two self-tapping screws.
⑮ Wipe three picture tube.
② Remove two screws. (TA, BV4 x 12, black)
④ Pull out lens panel assembly.
① Loosen two knobs.
③ Remove two screws. (TA, BV4 x 12, black)
⑥ Remove two self-tapping screws.

2-3. PICTURE TUBE <B> REMOVAL


⑤ flange nut (4 pcs)
⑥ picture tube
③ deflection yoke
② neck ass'y
① CB board
④ anode cap

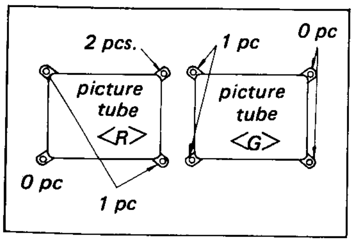
- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

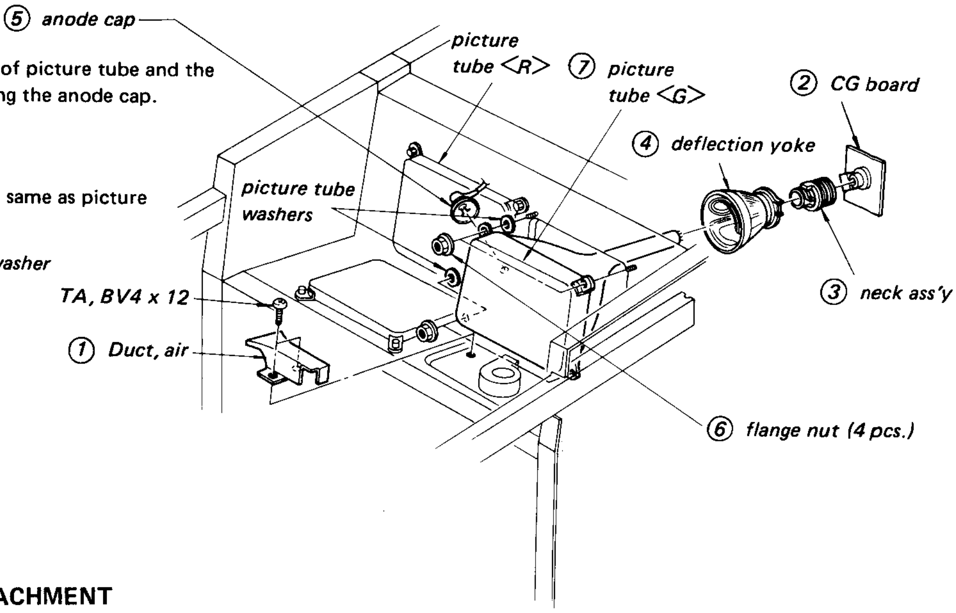
2-4. PICTURE TUBE <R·G> REMOVAL

- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

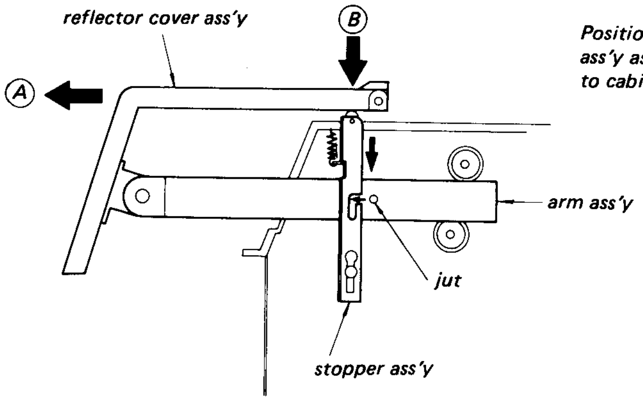
Note:
Picture tube <R> removal is the same as picture tube <G> removal.

Positions and numbers of picture tube washer are illustrated below.


2 pcs.
1 pc
0 pc
picture tube <R>
picture tube <G>
0 pc
1 pc


⑤ anode cap
picture tube <R>
⑦ picture tube <G>
② CG board
④ deflection yoke
picture tube washers
③ neck ass'y
TA, BV4 x 12
① Duct, air
⑥ flange nut (4 pcs.)

2-5. REFLECTOR COVER ATTACHMENT


reflector cover ass'y
Ⓑ
Ⓐ
arm ass'y
jut
stopper ass'y

Position the jut of arm ass'y in the cut-out of the stopper ass'y as shown, and attach the side plate ass'y (right, left) to cabinet.

(With reflector cover ass'y pressed in the direction shown by the arrow Ⓑ, pull it in the direction shown by the arrow Ⓐ, and the jut of arm ass'y can be installed in the cut-off.)

SECTION 3
SETUP ADJUSTMENTS

3-1. REGISTRATION ADJUSTMENTS

- Before starting the adjustment, proceed the following procedures.
  - Degauss the whole chassis.
  - Set the unit toward the north as shown in Fig. 3-1.

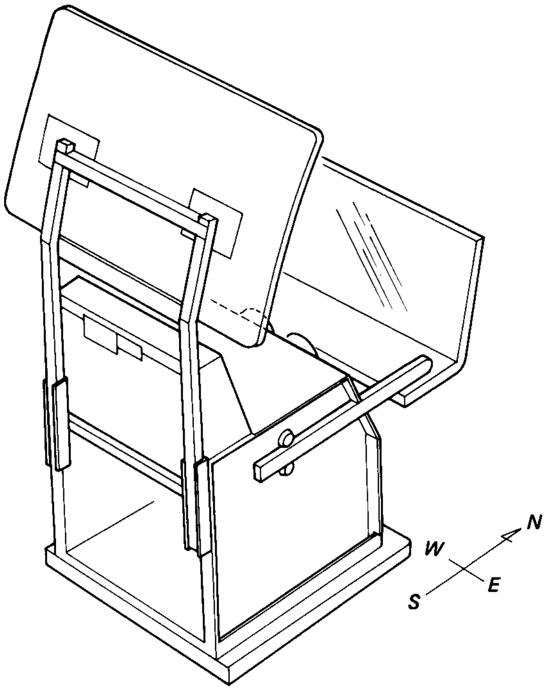
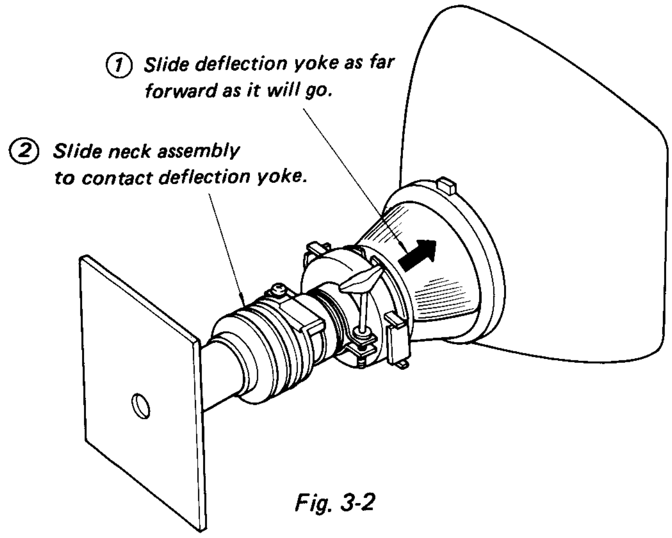


Fig. 3-1

- Set the three neck assemblies and the deflection yokes as shown in Fig. 3-2.



① Slide deflection yoke as far forward as it will go.

② Slide neck assembly to contact deflection yoke.

Fig. 3-2

- Controls and switches should be set as follows:

  HATCH switch ·········· TEST
  BRIGHT control ······· fully clockwise (maximum)
  PICTURE control ····· fully clockwise (maximum)
  H SUB BOW-G (RV501) } ··· mechanical center
  H SUB SKEW-G (RV502) } (on EB or DE board)

(1) PICTURE TUBE FOCUS ADJUSTMENT

1) Set POWER switch to ON.
2) Look at the picture tube <G> through the lens and adjust RV801 for best focus. (Fig. 3-3)

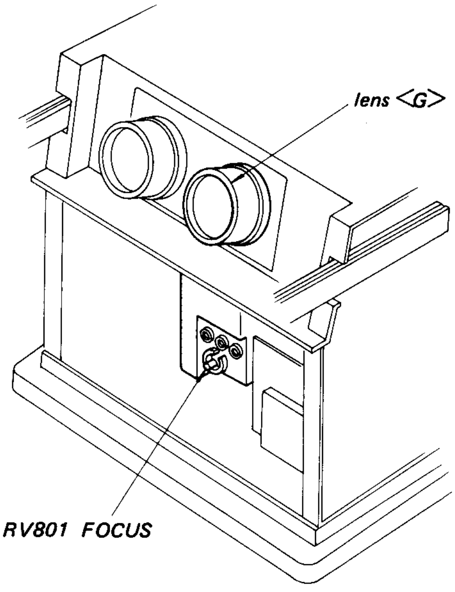


Fig. 3-3

3) Set the POWER switch to OFF.
4) Set the de-focus magnet as shown in Fig. 3-4 and apply suitable locking compound.

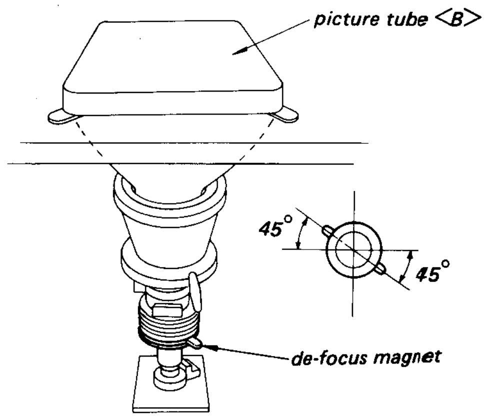


Fig. 3-4

(2) LENS FOCUS ADJUSTMENTS

1) Disconnect the BB-9 connector from BB board.
2) Cover the lens<R>/<B>with a cap or equivalent.
3) Set the POWER switch to ON.
4) Turn the lens <G> for best focus on the screen.
5) Tighten the set-screw<G>in position.
6) Remove the cap on the lens<R>/<B>and cover the lens<G>with a cap or equivalent.
7) Turn the lens<R>/<B>for best focus on the screen.
8) Tighten the set-screw<R>/<B>in position. (Fig. 3-5)

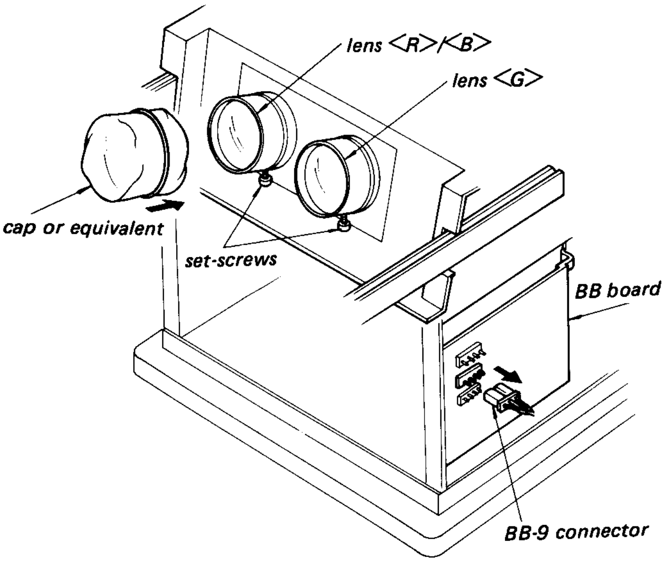

lens <R>/<B>
lens <G>
cap or equivalent
set-screws
BB board
BB-9 connector

Fig. 3-5

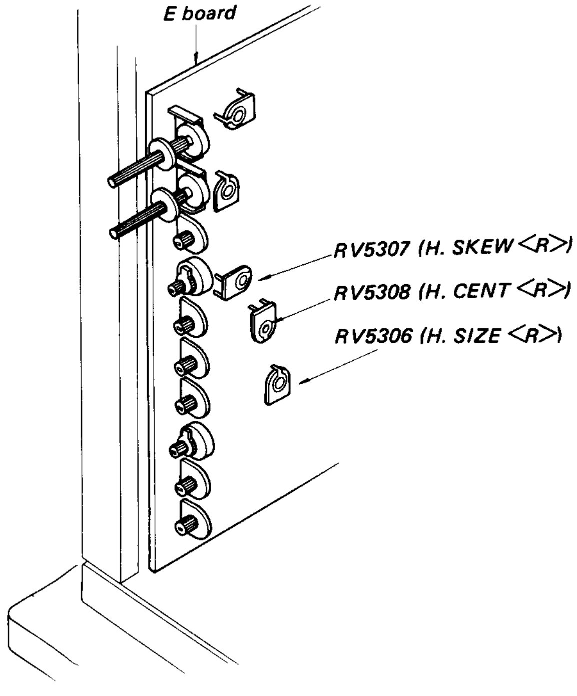

E board
RV5307 (H. SKEW <R>)
RV5308 (H. CENT <R>)
RV5306 (H. SIZE <R>)

Fig. 3-6

(3) RED PICTURE ADJUSTMENT

1) Disconnect the BB-9 connector from the BB board, and cover the lens<G>with a cap or equivalent.
2) Rotate the red deflection yoke to make the horizontal center line of cross-hatch pattern horizontal as shown in Fig. 3-7.

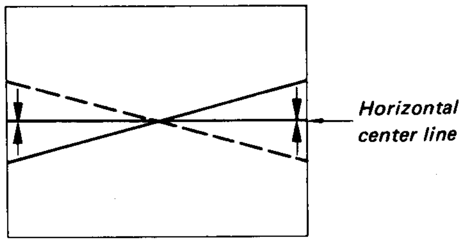

Horizontal center line

Fig. 3-7

3) Tighten the deflection yoke screw in position.
4) Position the neck assembly as shown in Fig. 3-8.

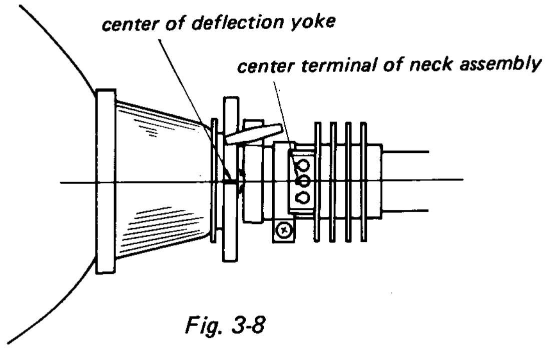

center of deflection yoke
center terminal of neck assembly

Fig. 3-8

5) Adjust RV5307 (H. SKEW<R>) to make the vertical center line of cross-hatch pattern vertical as shown in Fig. 3-9.

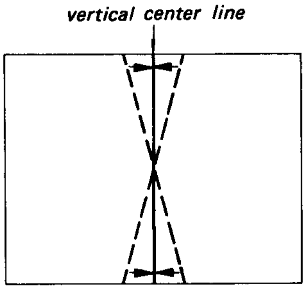

vertical center line

Fig. 3-9 (1)

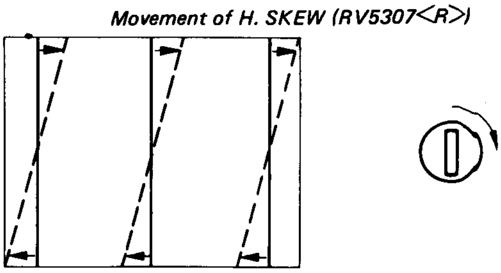

Movement of H. SKEW (RV5307<R>)

Fig. 3-9 (2)

6) Set the HATCH switch to NORMAL. (Fig. 3-10)

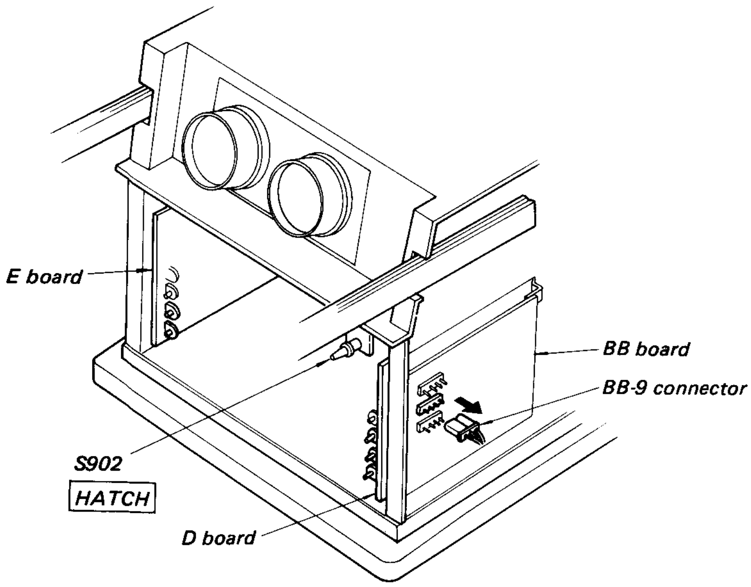

E board
BB board
BB-9 connector
S902
HATCH
D board

Fig. 3-10

7) Turn the PICTURE control 4/5 (80%) turns clockwise, and the BRIGHT control to mechanical-mid position.

8) Make the following adjustments.

① H. CENT<R>RV5308 . . . . E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is a little less than the screen size.

C) Adjust RV5308 (H. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-11.

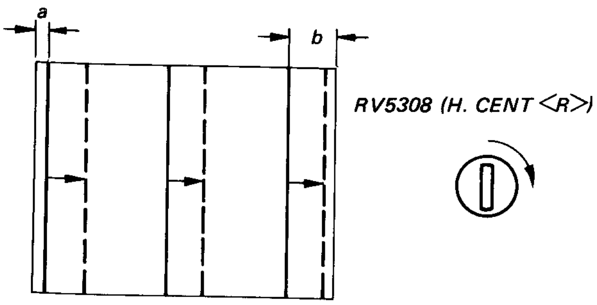

a
b
RV5308 (H. CENT<R>)

Fig. 3-11

D) Make H. SIZE (RV5306<R>) adjustment.

② H. SIZE<R>RV5306 . . . . E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is as shown in Fig. 3-12 (1).

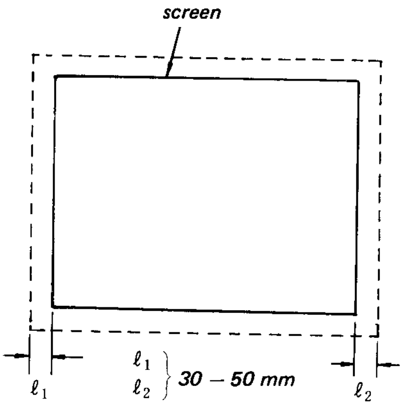

screen
ℓ_1
ℓ_2
ℓ_1, ℓ_2 30 – 50 mm

Fig. 3-12 (1)

Movement of H. SIZE (RV5306<R>)

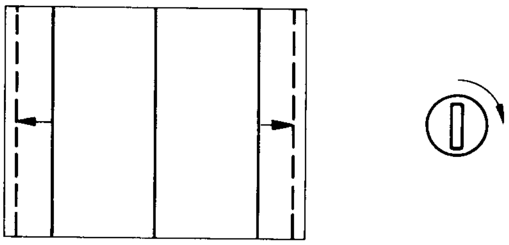


Fig. 3-12 (2)

③ V. CENT<R>RV5502 . . . . D board

A) Tune in an off-air signal.

B) Adjust RV5501 (V. SIZE<R>) so that the vertical picture size is a little less than the screen size.

C) Adjust RV5502 (V. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-13.

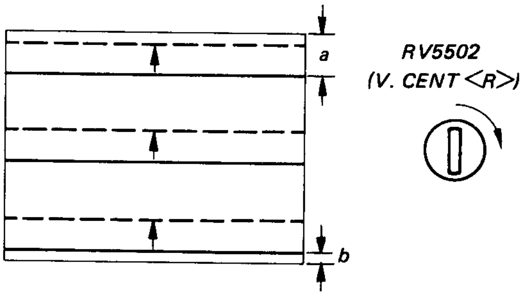

a
b
RV5502 (V. CENT<R>)

Fig. 3-13

D) Make V. SIZE<R>(RV5501) adjustment.

④ V. SIZE<R>RV5501 . . . . D board

A) Tune in an off-air signal.

B) Adjust RV5501 (V. SIZE<R>) so that the vertical picture size is as shown in Fig. 3-14 (1).

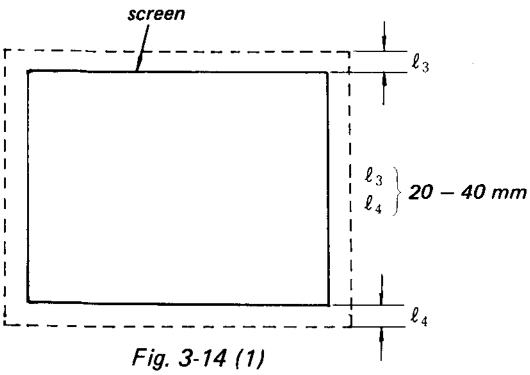

screen
ℓ_3
ℓ_3
ℓ_4
20 – 40 mm
ℓ_4

Fig. 3-14 (1)

Movement of V. SIZE (RV5501 <R>)

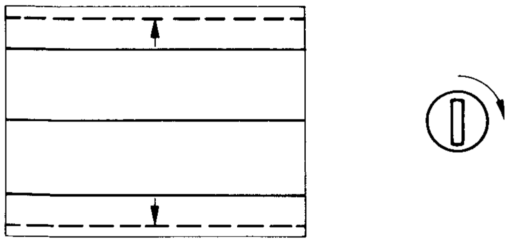


Fig. 3-14 (2)

If the V. CENT<R> adjustment can not be obtained by the step ③ , make the following adjustment,

A) Adjust RV5502 (V. CENT<R>) for mechanical-mid position.

B) Tune in an off-air signal.

C) Adjust RV5501 (V. SIZE <R>) so that the vertical picture size is a little less than the screen size.

D) Adjust the screw so that the picture is at the center of the screen as shown in Fig. 3-15.

E) Make the V. CENT (RV5502<R>) and the V. SIZE (RV5501 <R>) adjustments. (Fig. 3-15)

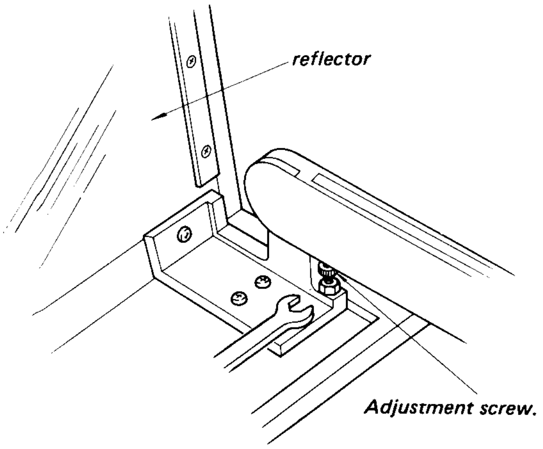

reflector
Adjustment screw.

Fig. 3-15

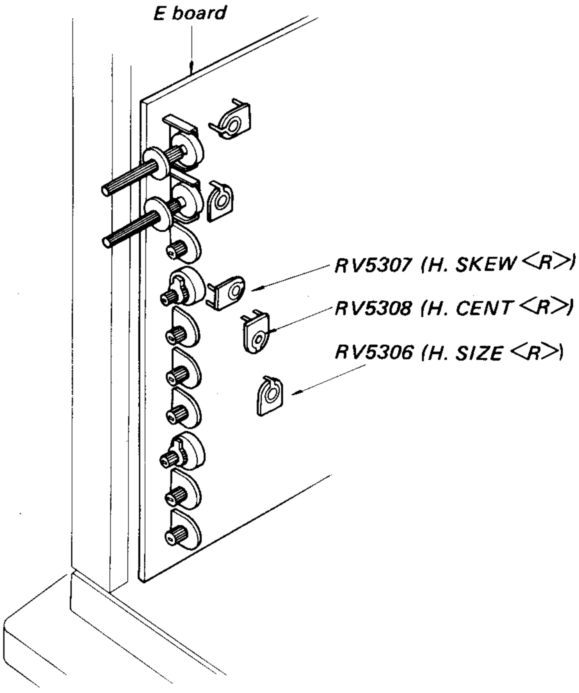

E board
RV5307 (H. SKEW<R>)
RV5308 (H. CENT<R>)
RV5306 (H. SIZE <R>)

Fig. 3-16

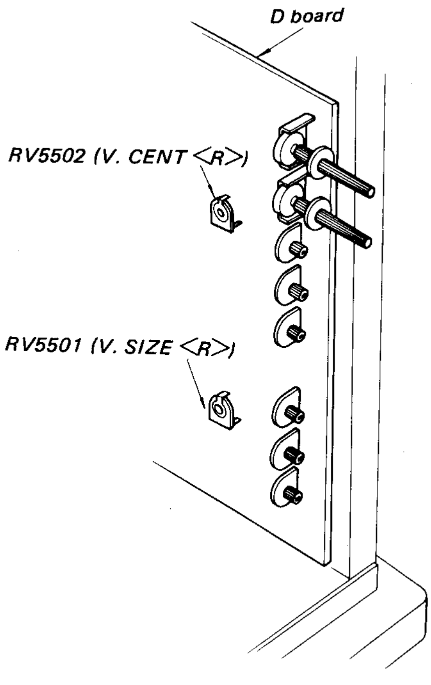

D board
RV5502 (V. CENT<R>)
RV5501 (V. SIZE <R>)

Fig. 3-17

(4) VERTICAL ADJUSTMENT OF RED AND GREEN PICTURES

1) Set the HATCH switch to TEST.
2) Disconnect the BB-9 connector from the BB board.
3) Adjust RV5506 (V. CENT <G>) to approach the green horizontal center line to the red horizontal center line properly for easier adjustment.
4) Rotate the deflection yoke<G>so that the green horizontal center line is parallel with the red horizontal center line (Fig. 3-18) or "ℓ_1" ("ℓ_3") is equal to "ℓ_2" ("ℓ_4") (Fig. 3-19).

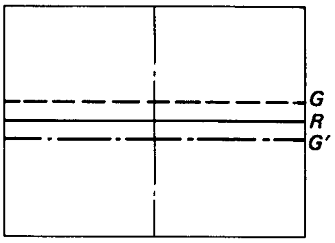


Fig. 3-18

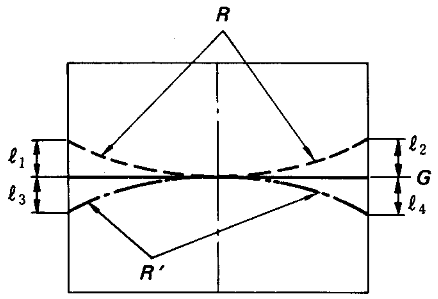
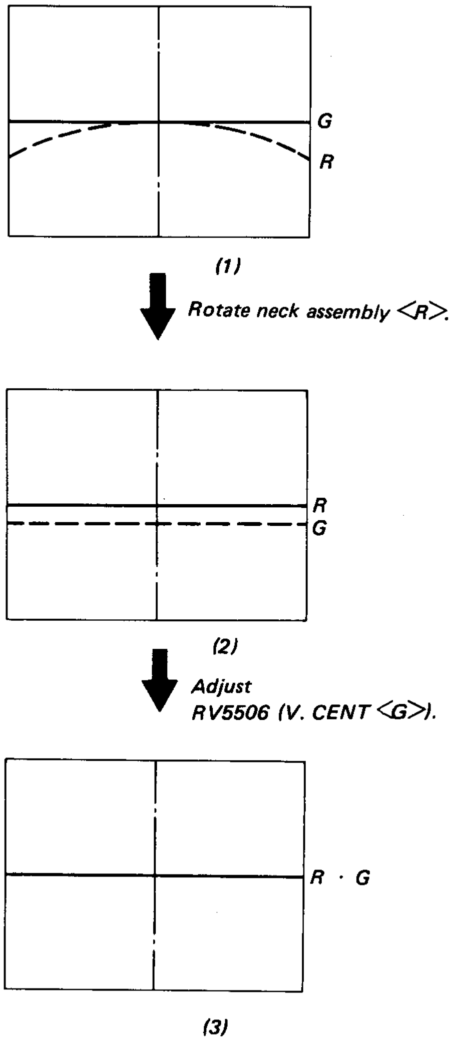


Fig. 3-19

5) Tighten the deflection yoke screw<G>in position
6) Position the neck assembly <G> as shown in Fig. 3-8. Tighten the neck assembly screw in position.
7) A) When the green horizontal center line is positioned as shown in Fig. 3-18;
   Adjust RV5506 (V. CENT<G>) to converge the green horizontal center line and red horizontal center line.
   B) When the green horizontal center line is position as shown in Fig. 3-19;
      ① Rotate the neck assembly <R> so that the red horizontal center line is parallel with the green horizontal center line, and tighten neck assembly screw <R> in position.
      ② Perform the step A). (Fig. 3-20)



Rotate neck assembly <R>.

Adjust RV5506 (V. CENT <G>).

Fig. 3-20

8) When the green horizontal center line is slanting as shown in Fig. 3-21.

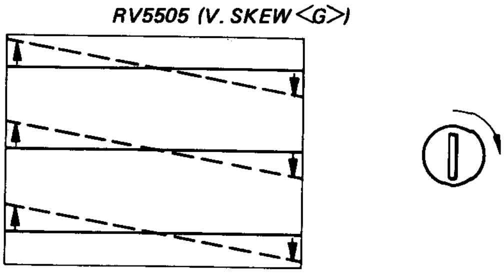
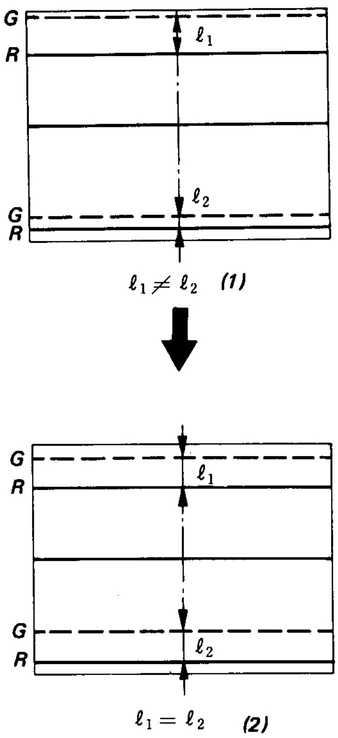


Fig. 3-21

① Adjust RV5505 (V. SKEW<G>) so that the red horizontal center line is parallel with the green horizontal center line.
② Repeat the procedures 6) and 7).

9) When the vertical adjustment can not be obtained by using RV5505 (V. SKEW<G>), set RV5505 (V. SKEW <G>) to the mechanical-mid position and perform the step (4) through (7) again.
10) Adjust RV5503 (V. SIZE <G>) so that "ℓ_1" is equal to "ℓ_2" as shown in Fig. 3-22.


G
R
ℓ_1
ℓ_2
G
R
G
R
ℓ_1
ℓ_2
G
R

$\ell_1 \neq \ell_2$ (1)

$\ell_1 = \ell_2$ (2)

Fig. 3-22

11) Adjust RV5504 (V. LIN<G>) so that "ℓ_1", "ℓ_2" and "ℓ_3" are equal as shown in Fig. 3-23 (1).

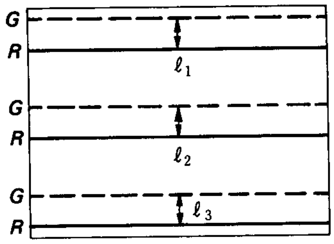

G
R
ℓ_1
G
R
ℓ_2
G
ℓ_3
R

Fig. 3-23 (1)

Movement of V. LIN (RV5504 <G>)

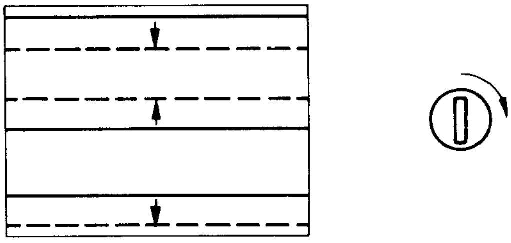


Fig. 3-23 (2)

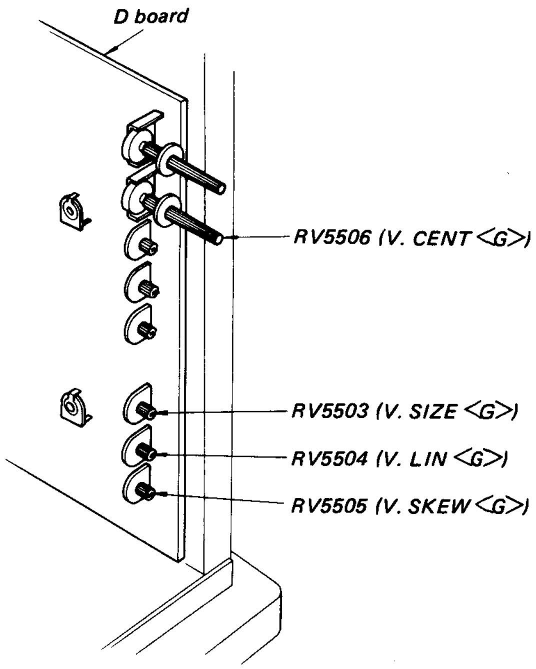

D board
RV5506 (V. CENT <G>)
RV5503 (V. SIZE <G>)
RV5504 (V. LIN <G>)
RV5505 (V. SKEW <G>)

Fig. 3-24

12) Adjust RV5506 (V. CENT <G>) to converge the green horizontal lines and the red horizontal lines as shown in Fig. 3-25 (1).

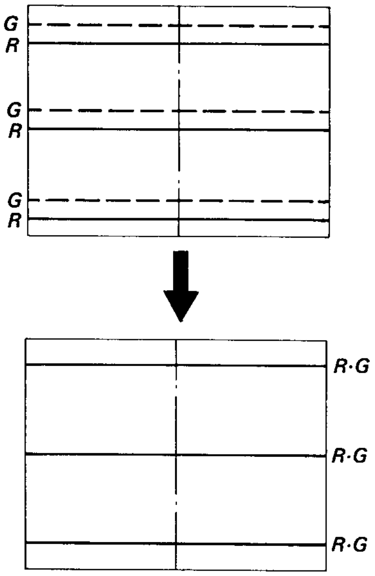

G
R
G
R
G
R
R·G
R·G
R·G

Fig. 3-25 (1)

Movement of RV5506 (V. CENT <G>)

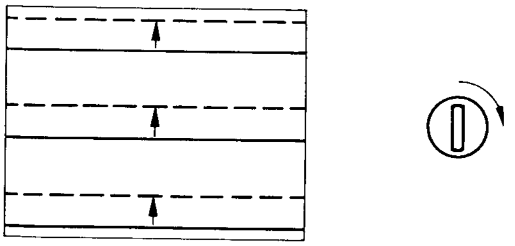


Fig. 3-25 (2)

If necessary, repeat the steps 10) through 12).

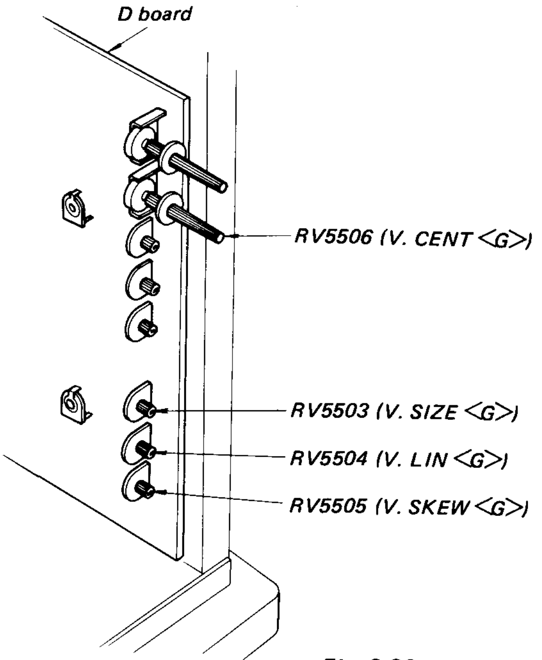

D board
RV5506 (V. CENT <G>)
RV5503 (V. SIZE <G>)
RV5504 (V. LIN <G>)
RV5505 (V. SKEW <G>)

Fig. 3-26

(5) HORIZONTAL ADJUSTMENT OF RED AND GREEN PICTURES

1) Set the HATCH switch to TEST.
2) Disconnect the BB-9 connector from the BB board.
3) Adjust RV5305 (H. CENT <G>) to approach the green vertical center line to the red vertical center line properly for easier adjustment.
4) Adjust RV5303 (H. SKEW<G>) so that the green vertical center line is parallel with the red vertical center line (Fig. 3-27) or "ℓ_1" ("ℓ_3") is equal to "ℓ_2" ("ℓ_4") (Fig. 3-28).

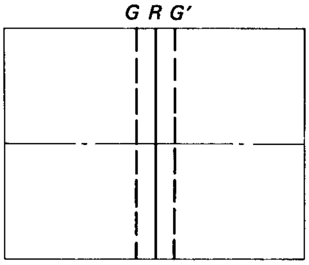


Fig. 3-27

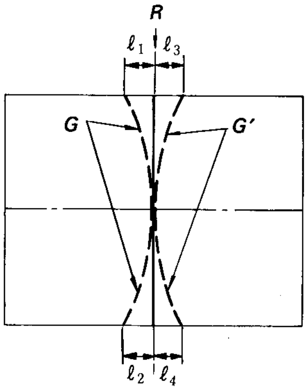

R
ℓ1
ℓ3
G
G'
ℓ2
ℓ4

Fig. 3-28

Movement of RV5303 (H. SKEW <G>)

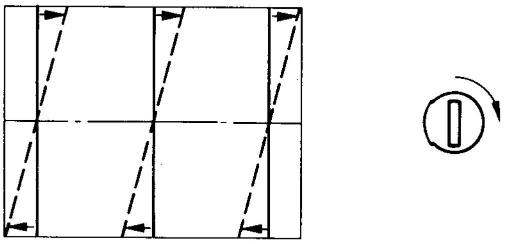


Fig. 3-29

5) A) When the green center line is positioned as shown in Fig. 3-27;
Adjust RV5305 (H. CENT<G>) to cenverge the green vertical center line and the red vertical center line.

B) When the green center line is positioned as shown in Fig. 3-28;
① Adjust RV5304 (H. BOW <G>) so that the vertical center line is parallel with the red vertical center line.
② Perform the step A).

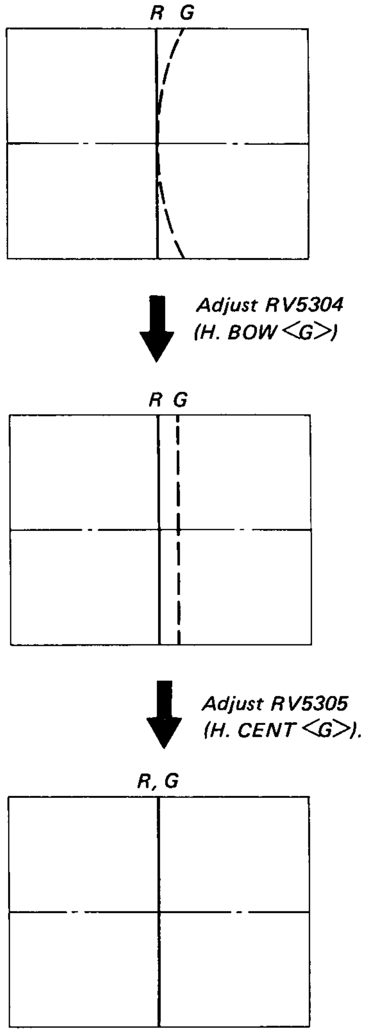

R G
Adjust RV5304
(H. BOW<G>)
R G
Adjust RV5305
(H. CENT<G>).
R, G

Fig. 3-30 (1)

Movement of RV5304 (H. BOW<G>).

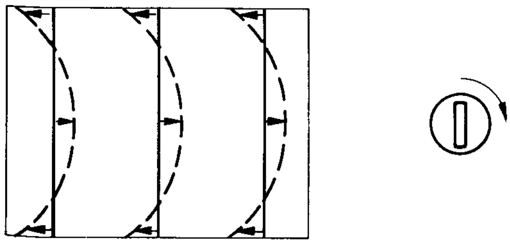


Fig. 3-30 (2)

6) Adjust RV5301 (H. KEYS<G>) so that the green vertical lines are parallel with the red vertical lines on the entire screen in Fig. 3-31 (1).

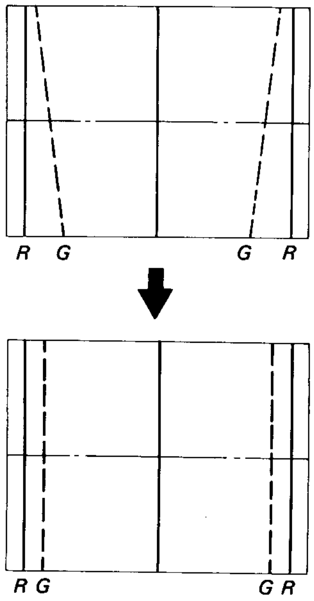


Fig. 3-31 (1)

Movement of RV5301 (H. KEYS<G>)

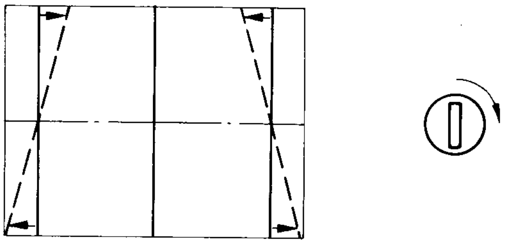


Fig. 3-31 (2)

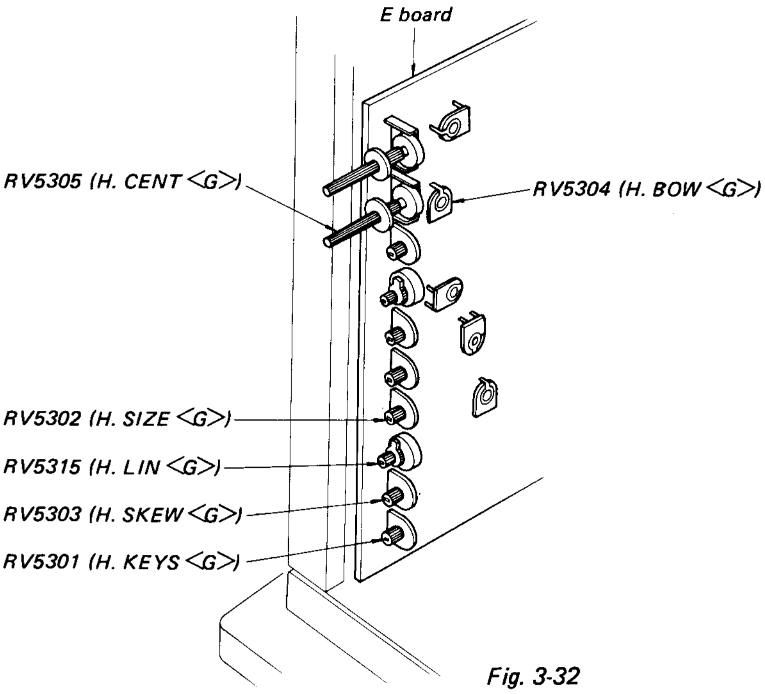

E board
RV5305 (H. CENT<G>)
RV5304 (H. BOW<G>)
RV5302 (H. SIZE<G>)
RV5315 (H. LIN<G>)
RV5303 (H. SKEW<G>)
RV5301 (H. KEYS<G>)

Fig. 3-32

7) Adjust RV5302 (H. SIZE <G>) so that "ℓ_1" is equal to "ℓ_2" as shown in Fig. 3-33 (1).

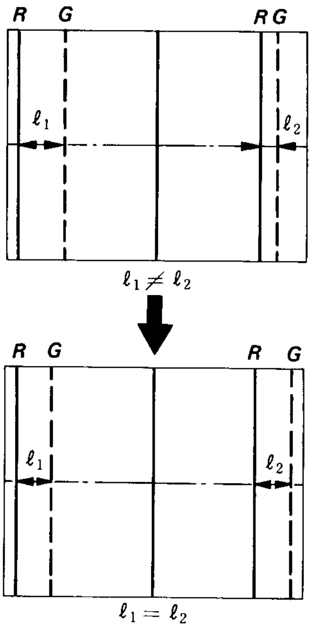

R G
R G
ℓ_1
ℓ_2
$\ell_1 \neq \ell_2$
R G
R G
ℓ_1
ℓ_2
$\ell_1 = \ell_2$

Fig. 3-33 (1)

Movement of RV5302 (H. SIZE <G>)

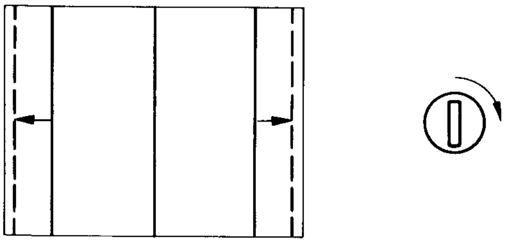


Fig. 3-33 (2)

8) Adjust RV5315 (H. LIN<G>) so that "ℓ_1", "ℓ_2" and "ℓ_3" are equal as shown in Fig. 3-34 (1).

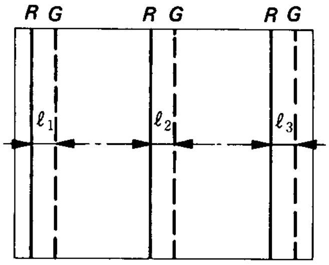

R G
R G
R G
ℓ_1
ℓ_2
ℓ_3

Fig. 3-34 (1)

Movement of RV5315 (H. LIN <G>)

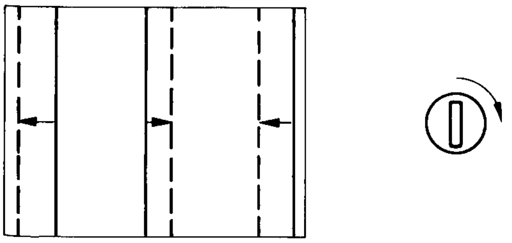


Fig. 3-34 (2)

9) Adjust RV5305 (H. CENT<G>) to converge the green vertical lines and the red vertical lines as shown in Fig. 3-35 (1).

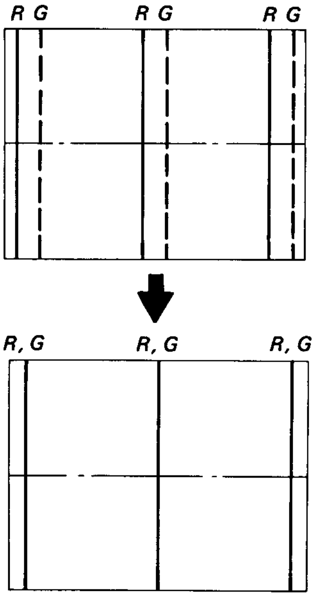

R G
R G
R G
R, G
R, G
R, G

Fig. 3-35 (1)

Movement of RV5305 (H. CENT <G>)

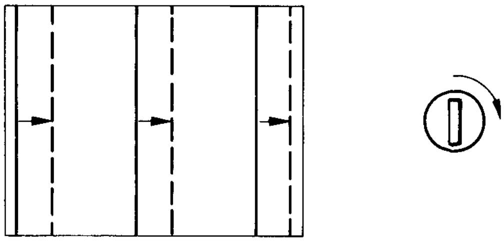


Fig. 3-35 (2)

If necessary, repeat the steps 7) through 9).

10) When the green vertical lines slanting at the both sides of the screen as shown in Fig. 3-36;
Readjust RV5301 (H. KEYS<G>) so that "ℓ_1" is equal to "ℓ_2".

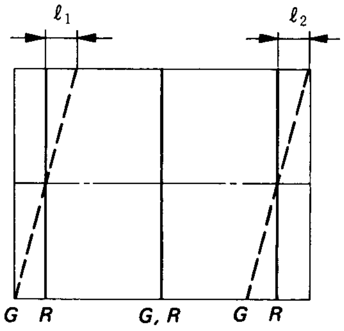

ℓ_1
ℓ_2
G R
G, R
G R

Fig. 3-36

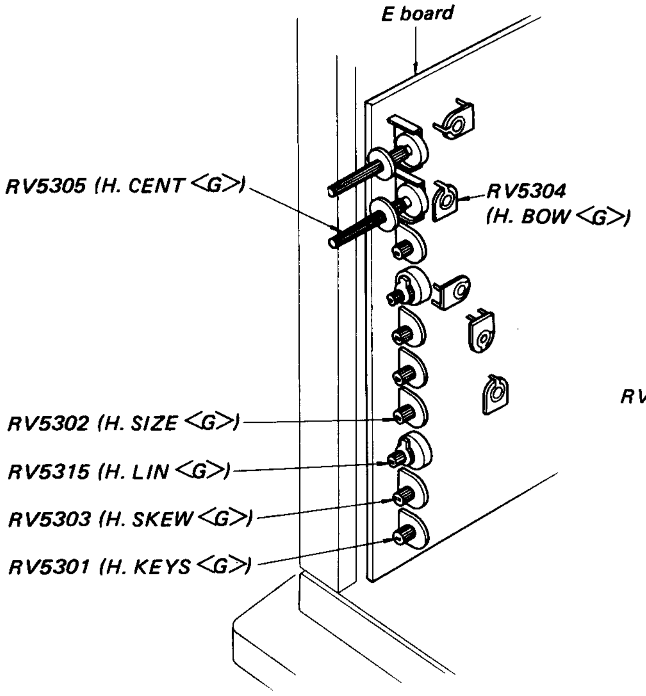

E board
RV5305 (H. CENT <G>)
RV5304
(H. BOW <G>)
RV5302 (H. SIZE <G>)
RV5315 (H. LIN <G>)
RV5303 (H. SKEW <G>)
RV5301 (H. KEYS <G>)

Fig. 3-37

11) If the registration can not be adjusted, perform fine adjustment of RV501 (H. SUB. BOW <G>) and RV502 (H. SUB SKEW <G>).

Movement of H. SUB BOW (RV501)

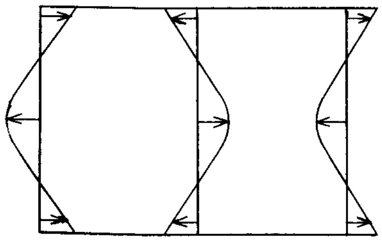


Fig. 3-38 (1)

Movement of H. SUB SKEW (RV502)

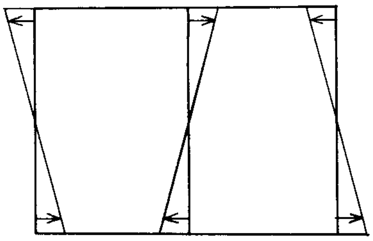


Fig. 3-38 (2)

12) If necessary, repeat the steps 10) and 11).

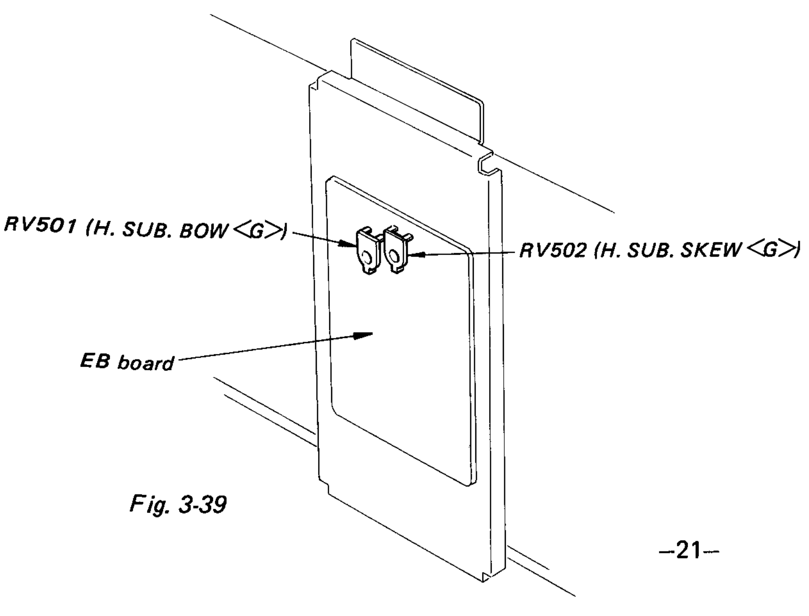

RV501 (H. SUB. BOW <G>)
RV502 (H. SUB. SKEW <G>)
EB board

Fig. 3-39

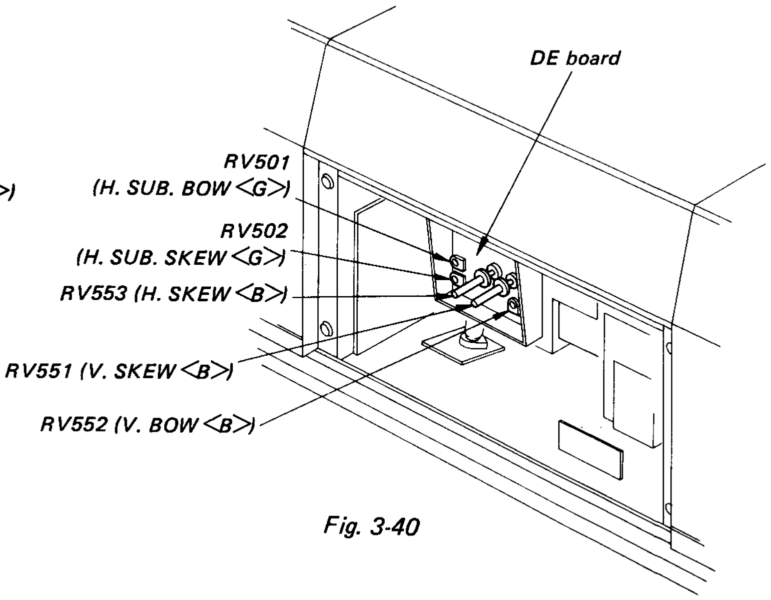

DE board
RV501
(H. SUB. BOW <G>)
RV502
(H. SUB. SKEW <G>)
RV553 (H. SKEW <B>)
RV551 (V. SKEW <B>)
RV552 (V. BOW <B>)

Fig. 3-40

(6) FINE ADJUSTMENT OF GREEN AND RED VERTICAL AND HORIZONTAL PICTURES

When the mis-resistration appears at the corners on the screen, affix a permalloy ass'y as shown in Fig. 3-41. *(X-4309-608-0 Permalloy Ass'y, convergence compensation)*

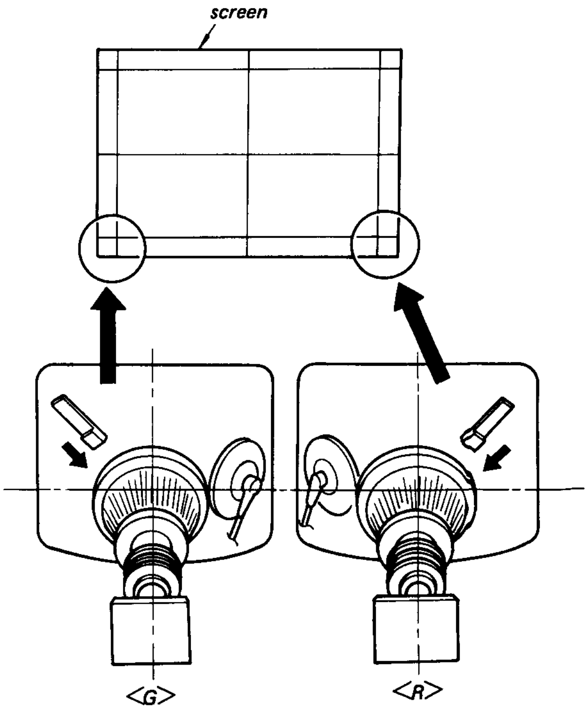


Fig. 3-41

(7) VERTICAL AND HORIZONTAL ADJUSTMENTS OF RED AND BLUE PICTURES

1) Set HATCH switch to TEST.
2) Connect the BB-9 connector on the BB board.
3) Cover the lens <G> with a cap or equivalent.
4) Adjust RV5313 (H. CENT<B>) and RV5510 (V. CENT<B>) to approach the center of blue cross-hatch pattern to center of red cross-hatch pattern.

Make the following adjustments (Refer to the RED AND GREEN PICTURE ADJUSTMENTS as described in the procedure (4), (5) and (6).

• VERTICAL ADJSTMENT RED AND BLUE PICTURES

1) Rotation of deflection yoke<B>.
2) Rotation of neck assembly<B>.
3) RV5510 (V. CENT<B>)
4) RV5509 (V. SKEW <B>) on E board or RV551 (V. SKEW <B>) on DE board.
5) RV552 (V. BOW <B>)
6) If necessary, repeat the above steps.
7) RV5507 (V. SIZE <B>)
8) RV5508 (V. LIN <B>)
9) RV5510 (V. CENT <B>)
10) If necessary, repeat the steps 7) through 9).

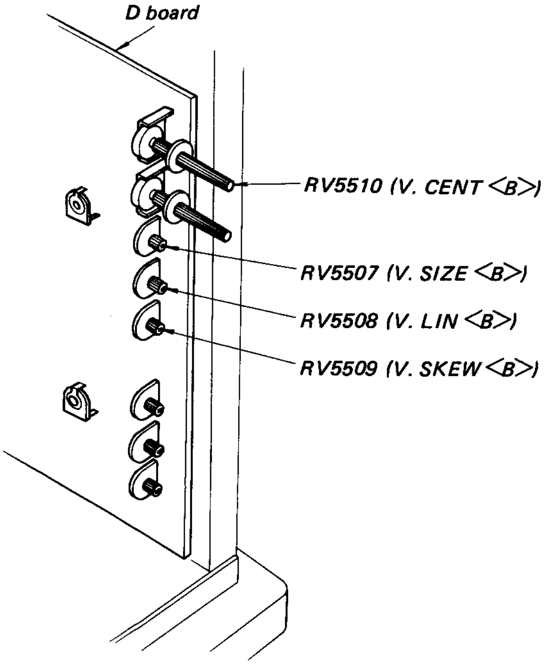

D board
RV5510 (V. CENT <B>)
RV5507 (V. SIZE <B>)
RV5508 (V. LIN <B>)
RV5509 (V. SKEW <B>)

Fig. 3-42

• HORIZONTAL ADJUSTMENT RED AND BLUE PICTURES

1) RV5311 (H. SKEW <B>) on E board or RV553 (H. SKEW <B>) on DE board.
2) RV5312 (H. BOW<B>)
3) RV5313 (H. CENT<B>)
4) If necessary, repeat the above steps.
5) RV5309 (H. KEYS<B>)
6) RV5310 (H. SIZE<B>)
7) RV5314 (H. LIN<B>)
8) RV5313 (H. CENT<B>)
9) If necessary, repeat the steps 5) through 8).
10) RV5309 (H. KEYS<B>)

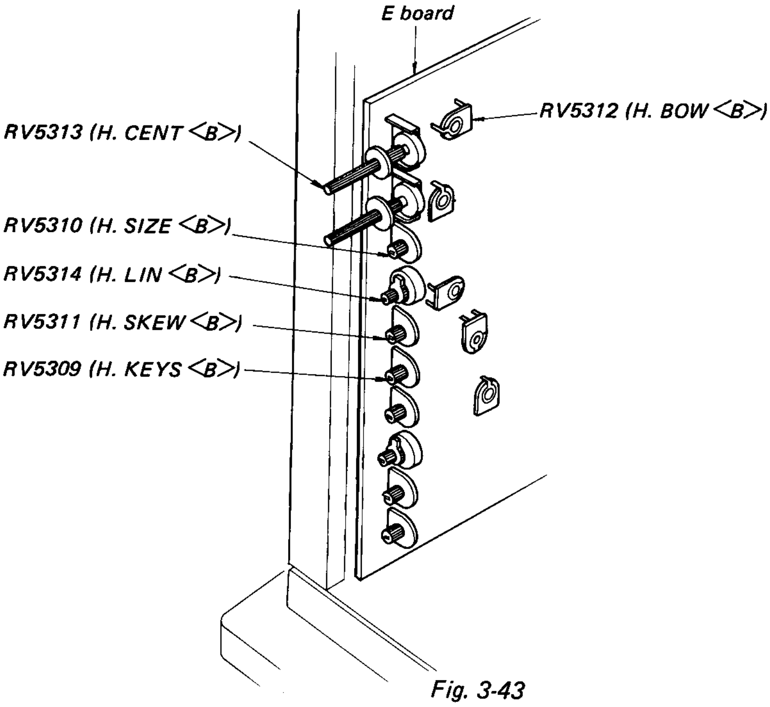

E board
RV5312 (H. BOW <B>)
RV5313 (H. CENT <B>)
RV5310 (H. SIZE <B>)
RV5314 (H. LIN <B>)
RV5311 (H. SKEW <B>)
RV5309 (H. KEYS <B>)

Fig. 3-43

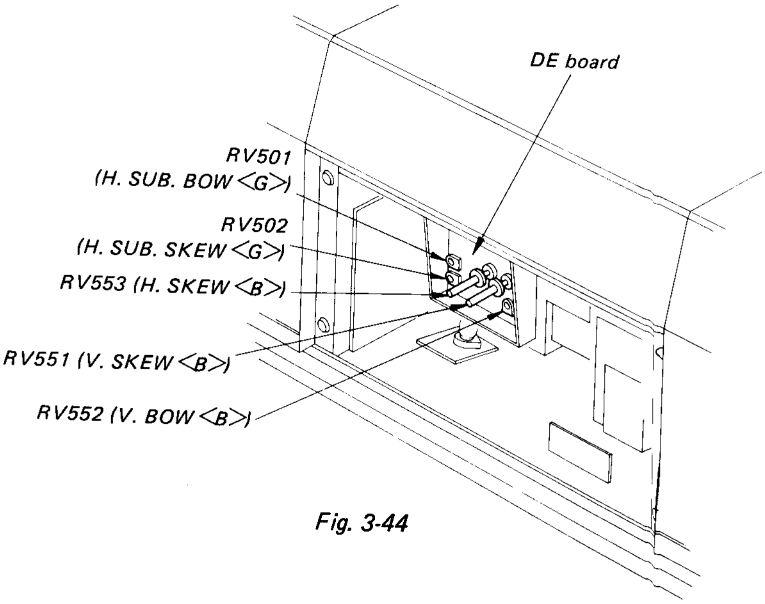

DE board
RV501 (H. SUB. BOW <G>)
RV502 (H. SUB. SKEW <G>)
RV553 (H. SKEW <B>)
RV551 (V. SKEW <B>)
RV552 (V. BOW <B>)

Fig. 3-44

3-2. WHITE BALANCE ADJUSTMENTS

1) Controls and switches should be set as follows;
   HATCH siwtch .... NORMAL
   COLOR control .... fully counterclockwise
2) Tune in an off-air signal.
3) Set RV5451 (SCRN-B), RV5452 (SCRN-G) and RV5453 (SCRN-R) to mechanical-mid position.
4) Turn the BRIGHT and the PICTURE controls fully counterclockwise.
5) Cover the lens<R>/<B>with a cap or equivalent.
6) Turn RV5452 (SCRN-G) slowly to obtain a faintly visible cross-hatch on the screen.
7) Remove the cap.
8) Adjust RV5451 (SCRN-B) and RV5453 (SCRN-R) for best white balance (natural gray) of faint cross-hatch.
9) Turn the BRIGHT and the PICTURE controls fully clockwise.
10) Turn the RV3109 (G. DRIVE) fully clockwise.
11) Adjust RV3108 (R. DRIVE), RV3110 (B. DRIVE) for best white balance.
12) Repeat the above steps 8) throught 11) two or three times.

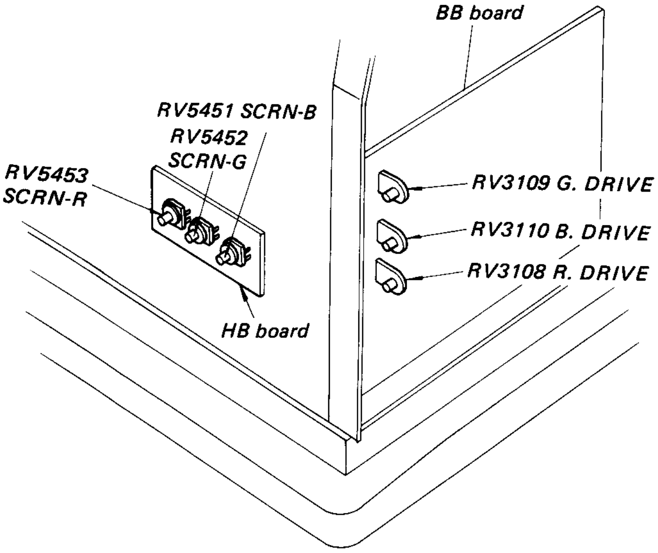

BB board
RV5451 SCRN-B
RV5452
SCRN-G
RV5453
SCRN-R
HB board
RV3109 G. DRIVE
RV3110 B. DRIVE
RV3108 R. DRIVE

Fig. 3-45

SECTION 4
CIRCUIT ADJUSTMENTS

Note:

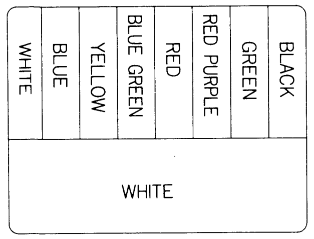
(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Digital multimeter
4. Color-bar/pattern generator
5. Video tuner
6. Variable auto-transformer

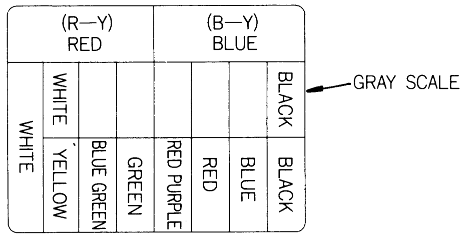
(2) INPUT SIGNAL

These adjustments were performed with the following color-bar signal inputs.

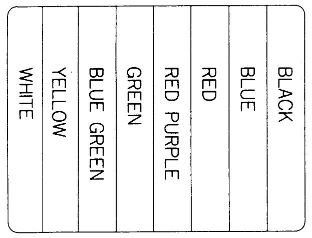
PAL


WHITE
BLUE
YELLOW
BLUE GREEN
RED
RED PURPLE
GREEN
BLACK
WHITE

SECAM


(R–Y)
RED
(B–Y)
BLUE
WHITE
BLACK
GRAY SCALE
WHITE
YELLOW
BLUE GREEN
GREEN
RED PURPLE
RED
BLUE
BLACK

NTSC 4.43


WHITE
YELLOW
BLUE GREEN
GREEN
RED PURPLE
RED
BLUE
BLACK

(3) CONTROL AND SWITCH SETTINGS

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control .... 4/5 (80%) turns clockwise
BRIGHT control, COLOR control, HUE control .... mechanical-mid
HATCH switch .... NORMAL

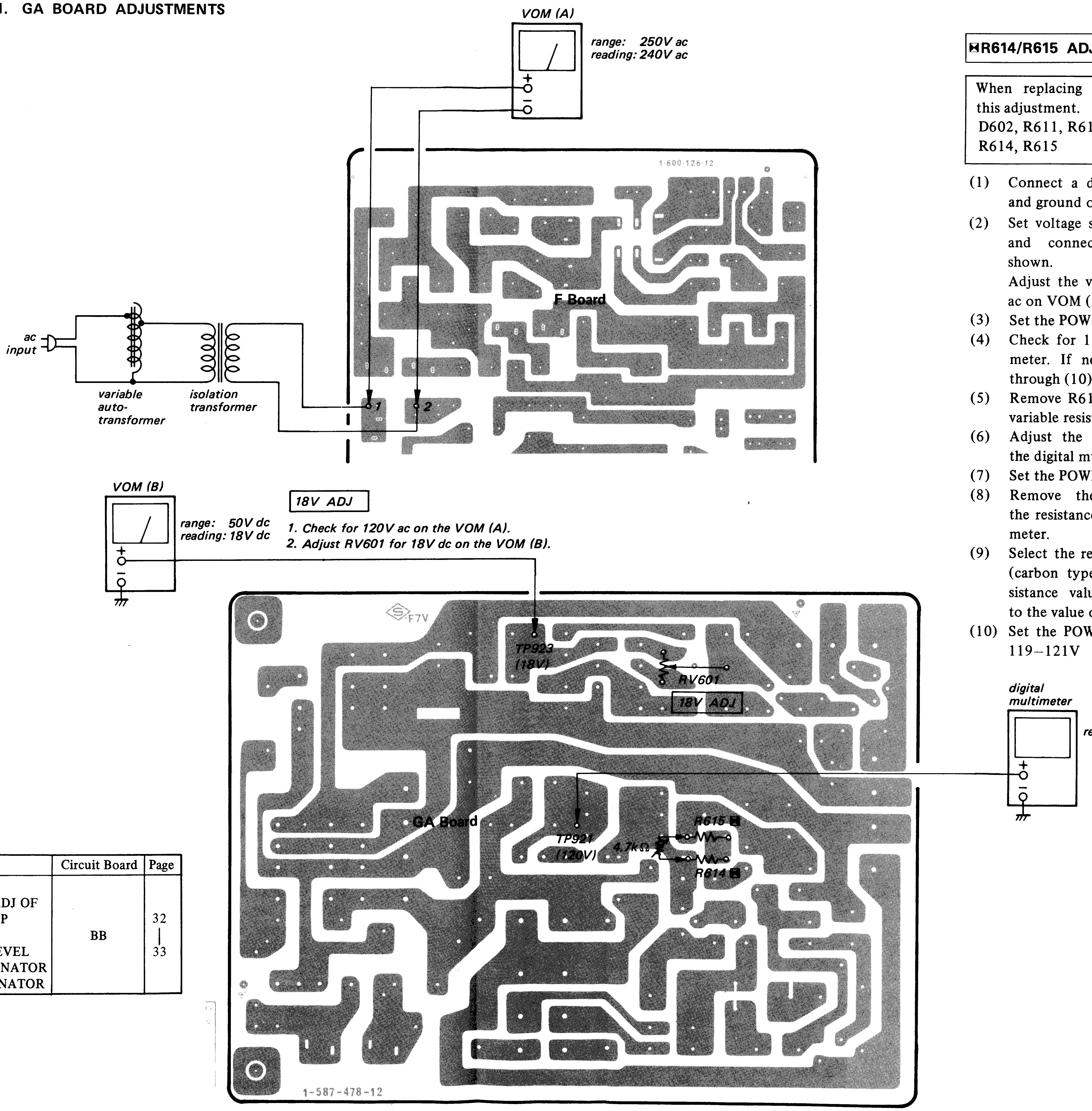
(4) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
18V ADJUSTMENT R614/R615 ADJUSTMENT	GA	25, 26
H. HOLD R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT	GB	27, 28
OSC KILLER ACC BELL FILTER BKG 1H DELAY TOT 4.43MHz TRAP 4.25MHz TRAP	BB	29 | 31

Adjustment	Circuit Board	Page
CW PHASE DC BALANC ADJ OF CHROMA AMP SECAM ID R-Y DISCRI LEVEL B-Y DISCRI MINATOR R-Y DISCRIMINATOR	BB	32 | 33

(5) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

4-1. GA BOARD ADJUSTMENTS


VOM (A)
range: 250V ac
reading: 240V ac
1-600-126-12
F Board
ac input
variable auto-transformer
isolation transformer
1
2
VOM (B)
range: 50V dc
reading: 18V dc
F7V
TP923 (18V)
RV601
18V ADJ
GA Board
TP921 (120V)
4.7kΩ
R615
R614
1-587-478-12
digital multimeter
reading: 120V dc

18V ADJ

1. Check for 120V ac on the VOM (A).
2. Adjust RV601 for 18V dc on the VOM (B).

⊠R614/R615 ADJUSTMENT

When replacing the following components, make this adjustment.
D602, R611, R612, R613, R614, R615 .... GA board

(1) Connect a digital multimeter between TP921 and ground on the GA board.

(2) Set voltage selector (S6103) to 240V position and connect variable auto-transformer as shown. Adjust the variable auto-transformer for 240V ac on VOM (A).

(3) Set the POWER switch to ON.

(4) Check for 119–121V dc on the digital multimeter. If necessary, proceed to the step (5) through (10).

(5) Remove R614 and R615, and connect a 4.7kΩ variable resistor instead of them.

(6) Adjust the variable resistor for 120V dc on the digital multimeter.

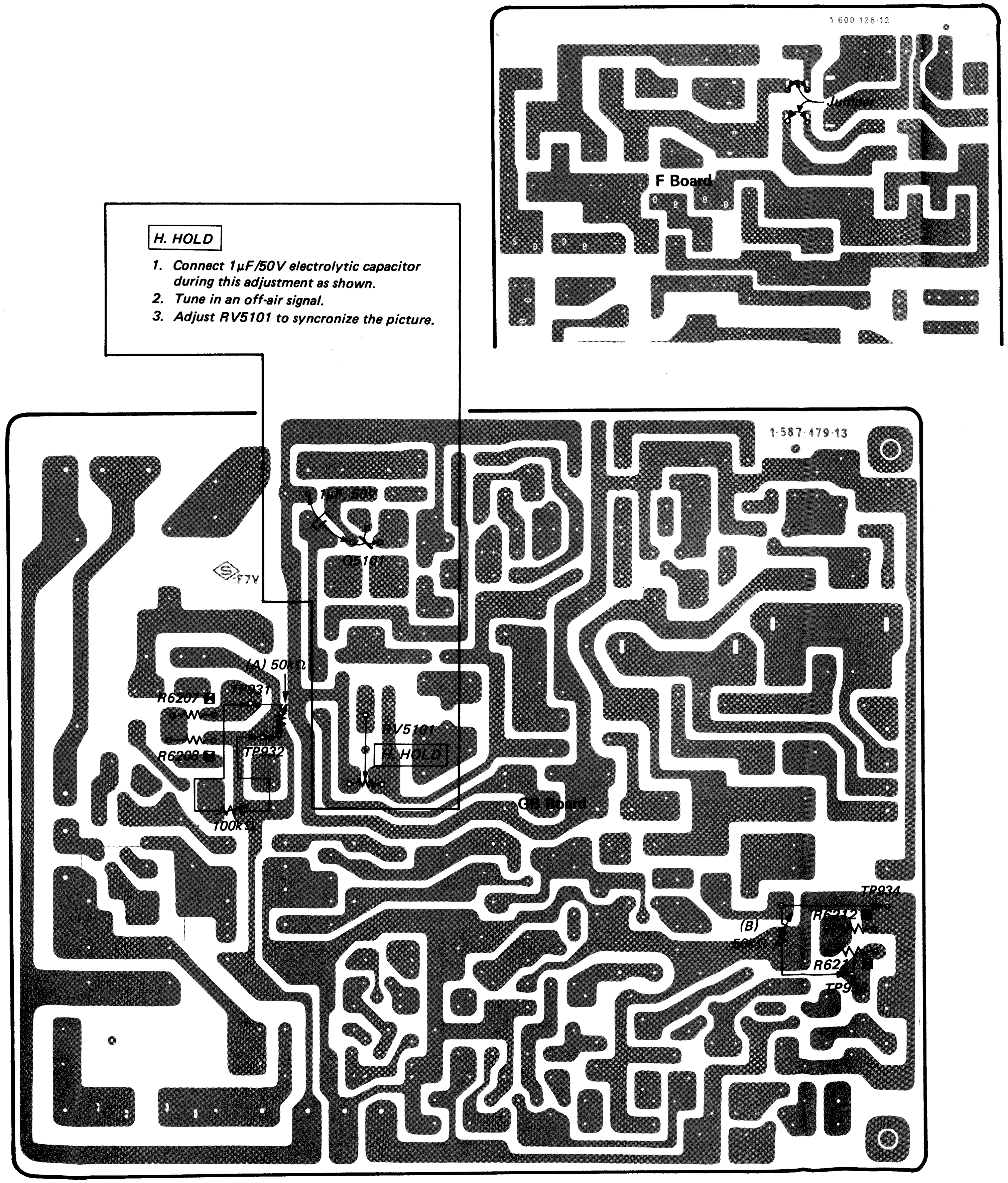
(7) Set the POWER switch to OFF.

(8) Remove the variable resistor and measure the resistance value of it with the digital multimeter.

(9) Select the resistance values of R614 and R615 (carbon type, ¼W) so that sum of series resistance value of R614 and R615 is equal to the value of in step (8).

(10) Set the POWER switch to ON, and check for 119–121V dc on the digital multimeter.

4-2. GB BOARD ADJUSTMENTS



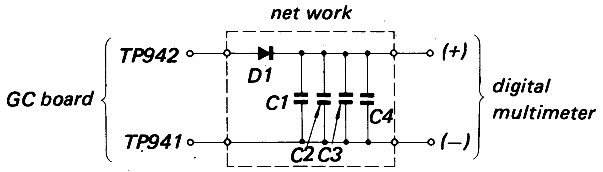
H. HOLD

1. *Connect 1μF/50V electrolytic capacitor during this adjustment as shown.*
2. *Tune in an off-air signal.*
3. *Adjust RV5101 to syncronize the picture.*

R6211/R6212 ADJUSTMENT

Note: Befor starting this adjustment, set the voltage selector (S6103) to 240V position and adjust the variable auto-transformer for 240V ac on VOM (A).

(1) Make the floowing network and connect a digital multimeter as shown below.



Diode (D1): SB2B
Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-00)
Digital multimeter: Capable of measuring the voltages of more than 1,000V

(2) Turn the BRIGHT and PICTURE controls fully clockwise.

(3) Feed in the white pattern from color-bar/pattern generater.

(4) Remove R6207 and connect a 50kΩ variable resistor (A) between the test points TP931 and TP932 on the GB board.
Set the variable resistor (A) to maximum position.

(5) Remove R6211 and R6212, and connect a 50kΩ variable resistor (B) between the test points TP933 and TP934 on the GB board. Set the variable resistor (B) to minimum position.

(6) Set the POWER switch to ON.

(7) Adjust the variable resistor (A) for 523–525V dc on the digital multimeter.

(8) Set the variable resistor (B) to the point where the POWER is automatically turned OFF.

(9) Remove the variable resistor (B) and measure the resistance value of it with the digital multimeter.

(10) Select the resistance values of R6211 and R6212 (carbon type, ¼W) so that sum of series resistance value of R6211 and R6212 is equal to the value in step (9).

(11) Connect R6211 and R6212.

(12) Set the variable resistor (A) to maximum position, and set the POWER switch (S6101) to ON again.

(13) Connect two jumpers.

(14) Decrease the value of variable resistor (A) and make sure that the picture begins to become unstable at 519–529V dc on the digital multimeter.

(15) Set POWER switch to OFF. Connect R6207 and remove the variable resistor (A), the network and digital multimeter.

When replacing the following components, adjust R6211/R6212 and R6207/R6208 as described below.
DC851 (HV block)
T801 (FBT-1), T802 (FBT-2)
R807, R808, R810 . . . . HV block
Q6204, Q6205, D6207, R6207
R6208, R6210, R6211, R6212 . . . . GB board
C802, C803, C804, C805 . . . . GC board

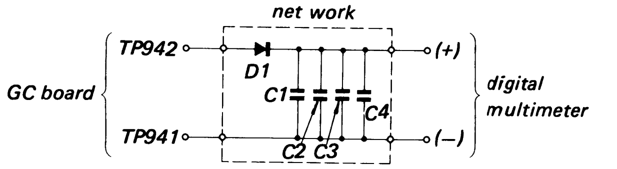
R6207/R6208 ADJUSTMENT

When replacing the following components, make this adjustment.

R805, R806, R809 . . . . HV block
Q6201, Q6202, Q6203, Q6214
D6201, R6206, R6237 . . . . GB board

(1) Make the following network and connect a digital multimeter as shown below.

Note: Befor starting this adjustment, set the voltage selector (S6103) to 240V position and adjust the variable auto-transformer for 240V ac on VOM (A).



Diode (D1): SB2B
Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-00)
Digital multimeter: Capable of measuring the voltage of more than 1,000V

(2) Turn the BRIGHT and PICTURE controls fully clockwise.

(3) Feed in the white pattern from color-bar/pattern generator.

(4) Remove R6207 and R6208, and connect a 100kΩ variable resistor between test points TP931 and TP932 on the GB board.
Set the variable resistor to maximum position.

(5) Set the POWER switch to ON, and adjust the variable resistor for 483–485V dc on the digital multimeter.

(6) Set the POWER switch to OFF.

(7) Remove the variable resistor and measure the resistance value of it with the digital multimeter.

(8) Select the resistance value of R6207 and R6208 (carbon type, ¼W) so that sum of series resistance value of R6207 and R6208 is equal to the value in step (7).

(9) Connect the resistor R6207 and R6208.

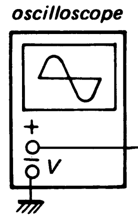
(10) Set the POWER switch to ON and make sure that the digital multimeter indicates 479–489V dc.

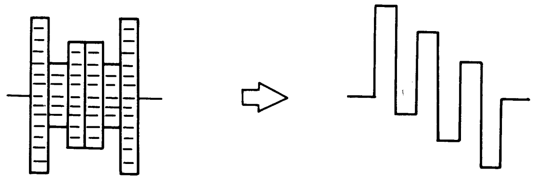
(11) Set the POWER switch to OFF.
Remove the network and the digital multimeter.

4-3. BB BOARD ADJUSTMENTS

OSC

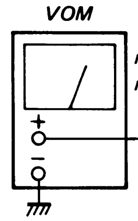
1. Feed in a PAL color-bar signal.
2. Connect an electrolytic capacitor (10µF/16V) as shown during this adjustment.
3. Connect the oscilloscope to the terminal 8 of IC3104.
4. Adjust CV3101 for stable waveform on oscilloscope as shown.


oscilloscope
+
V



KILLER

1. Feed in a PAL color-bar signal.
2. Connect an electrolytic capacitor (10µF/16V) as shown during this adjustment.
3. Adjust RV3105 for 4V dc on VOM.



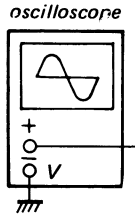
range: 5V dc
reading: 4V dc

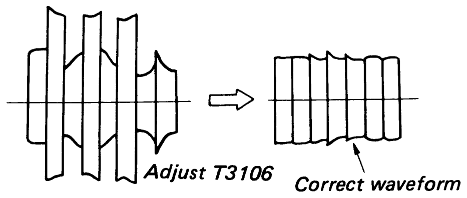
ACC

1. Turn in a strong off-air signal.
2. Set PICTURE control to 4/5 (80%) turns clockwise.
3. Set COLOUR control to mechanical center.
4. Adjust RV3106 for suitable color intensity.

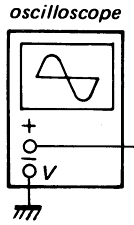
BELL FILTER

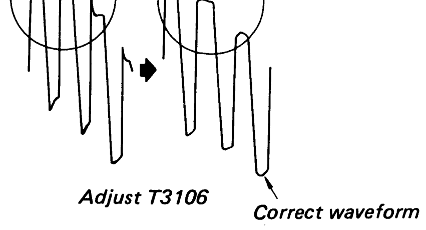
1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 3 of IC3101.
3. Adjust T3106 to obtain a correct waveform.

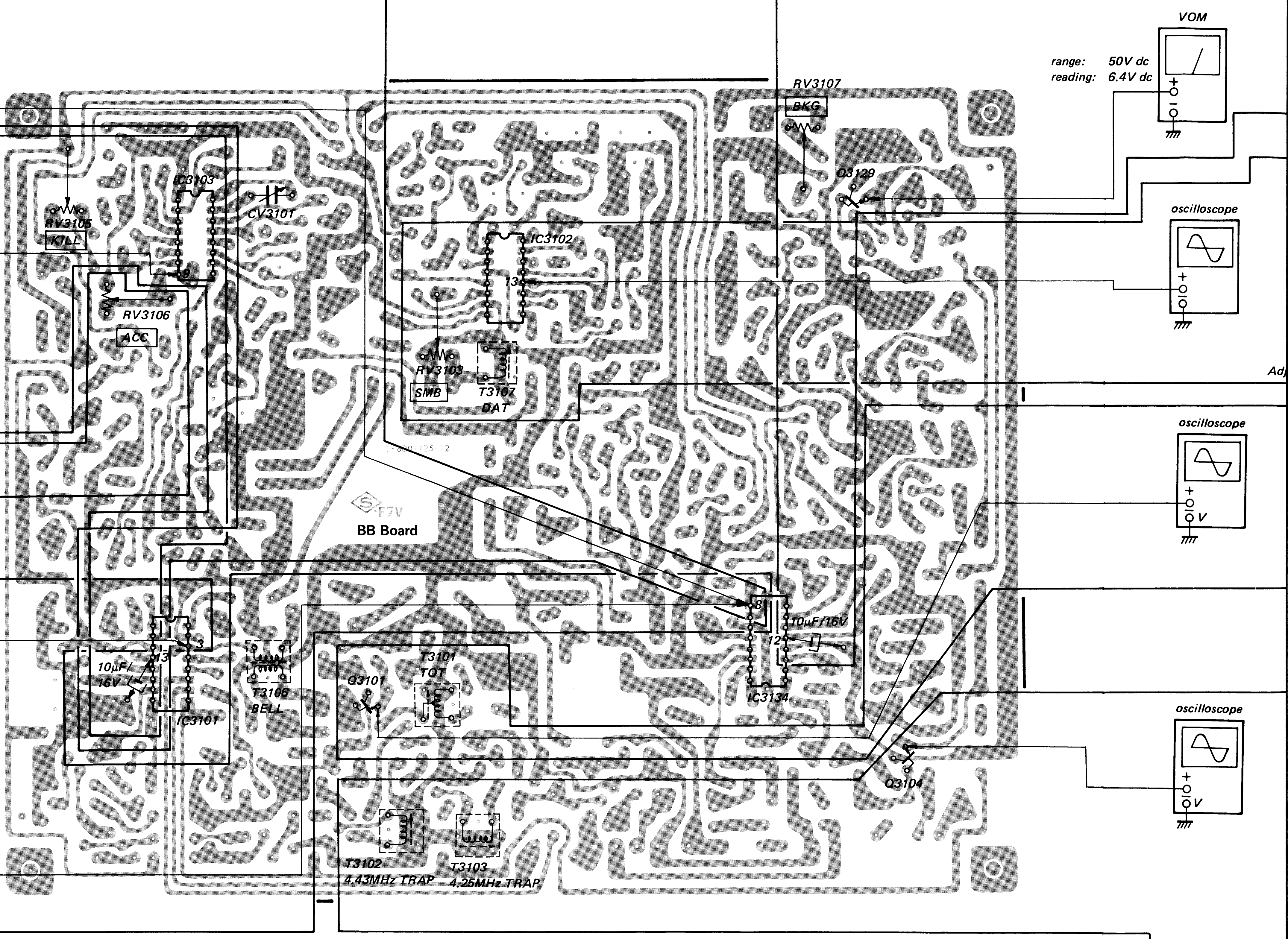

oscilloscope
+
V

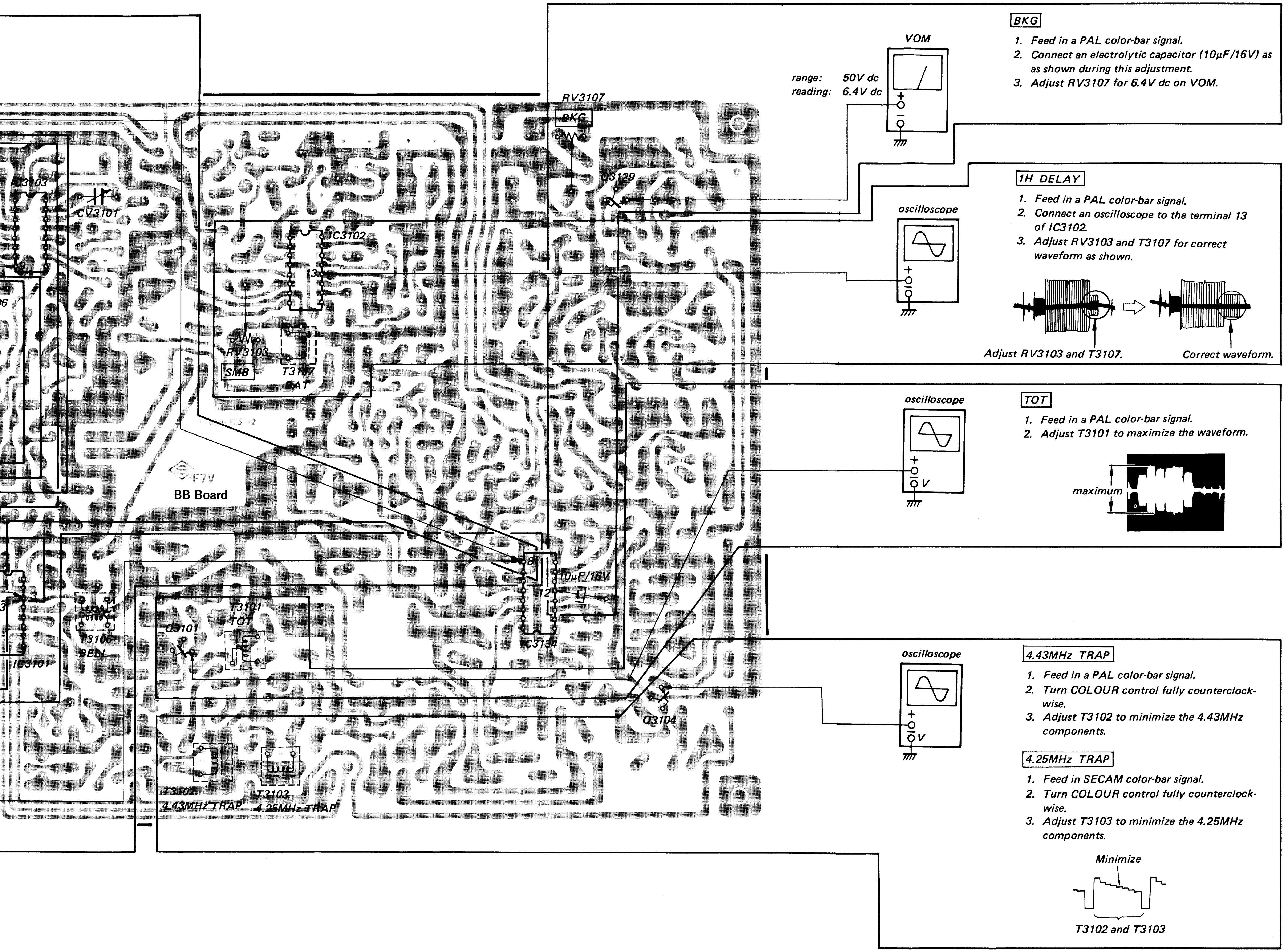

Adjust T3106
Correct waveform

4. Connect an oscilloscope to the terminal 8 of IC3104.
5. Adjust T3106 to obtain a correct waveform.


oscilloscope
+
V


Adjust T3106
Correct waveform


IC3103
CV3101
RV3105
KILL
19
RV3106
ACC
IC3102
13
RV3103
SMB
T3107
DAT
RV3107
BKG
Q3129
VOM
range: 50V dc
reading: 6.4V dc
+
-
oscilloscope
+
oscilloscope
+
V
Adj
F7V
BB Board
8
10µF/16V
12
IC3134
3
13
10µF/16V
IC3101
T3106
BELL
Q3101
T3101
TOT
oscilloscope
+
V
Q3104
T3102
4.43MHz TRAP
T3103
4.25MHz TRAP


VOM
range: 50V dc
reading: 6.4V dc
oscilloscope
oscilloscope
oscilloscope
RV3107
BKG
Q3129
IC3103
CV3101
IC3102
13
RV3103
SMB
T3107
DAT
BB Board
F7V
8
12
10µF/16V
IC3134
Q3101
T3101
TOT
T3106
BELL
IC3101
Q3104
T3102
4.43MHz TRAP
T3103
4.25MHz TRAP
Adjust RV3103 and T3107.
Correct waveform.
maximum
Minimize
T3102 and T3103

BKG

1. Feed in a PAL color-bar signal.
2. Connect an electrolytic capacitor (10µF/16V) as as shown during this adjustment.
3. Adjust RV3107 for 6.4V dc on VOM.

1H DELAY

1. Feed in a PAL color-bar signal.
2. Connect an oscilloscope to the terminal 13 of IC3102.
3. Adjust RV3103 and T3107 for correct waveform as shown.

TOT

1. Feed in a PAL color-bar signal.
2. Adjust T3101 to maximize the waveform.

4.43MHz TRAP

1. Feed in a PAL color-bar signal.
2. Turn COLOUR control fully counterclockwise.
3. Adjust T3102 to minimize the 4.43MHz components.

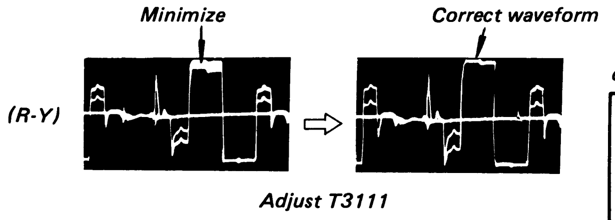
4.25MHz TRAP

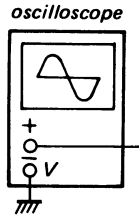
1. Feed in SECAM color-bar signal.
2. Turn COLOUR control fully counterclockwise.
3. Adjust T3103 to minimize the 4.25MHz components.

4-4. BB ADJUSTMENTS

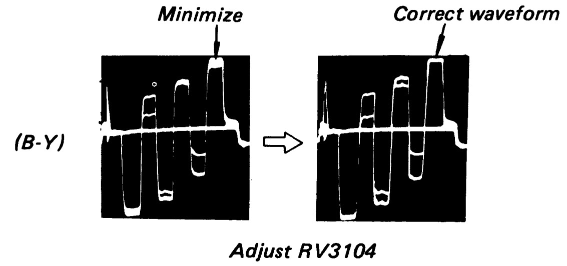
CW PHASE

1. Feed in a PAL color-bar signal.
2. Connect an oscilloscope to the terminal 9 of IC3104.
3. Adjust T3111 to obtain a correct waveform.



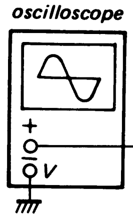

oscilloscope
+
V

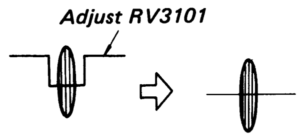
4. Connect an oscilloscope to the terminal 8 of IC3104.
5. Adjust RV3104 to obtain a correct waveform.



DC BALANCE ADJ OF CHROMA AMP

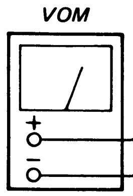
1. Feed in a PAL color-bar signal.
2. Adjust RV3101 to obtain a correct waveform.

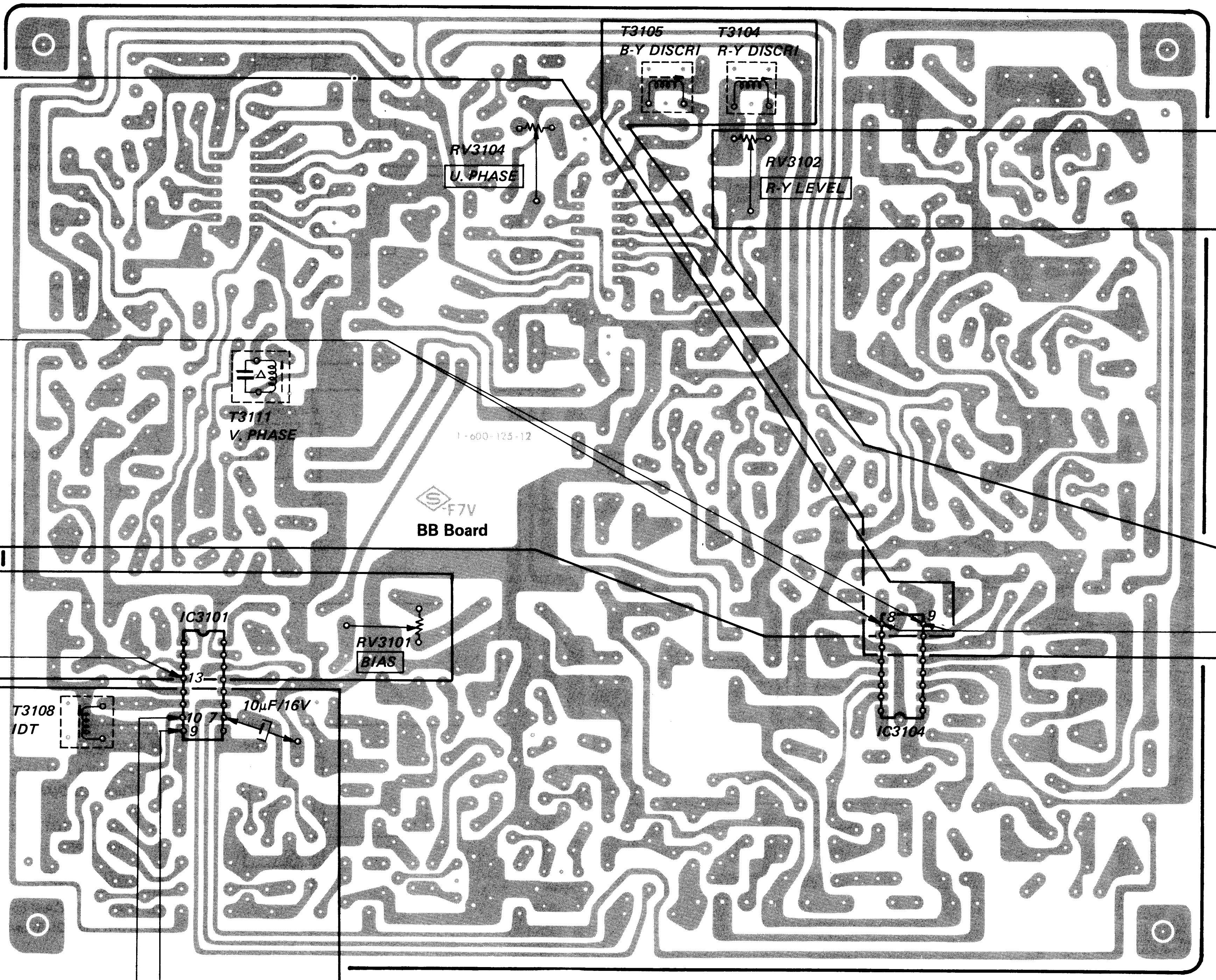

oscilloscope
+
V



SECAM ID

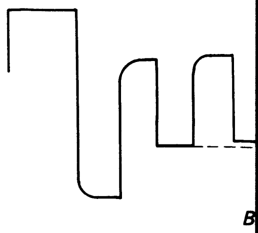
1. Feed in a SECAM color-bar signal.
2. Connect an electrolytic capacitor (10μF/16V) as shown during this adjustment.
3. Adjust T3108 for maximum voltage on the VOM.



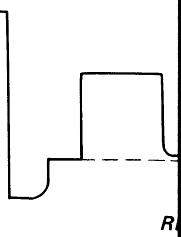

T3105
B-Y DISCRI
T3104
R-Y DISCRI
RV3104
U. PHASE
RV3102
R-Y LEVEL
T3111
V. PHASE
1-600-125-12
F7V
BB Board
IC3101
13
10
7
9
RV3101
BIAS
T3108
IDT
10μF/16V
8
9
IC3104

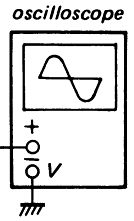
R-Y DISCRI LEVEL

1. Feed in a SECAM color-b
2. Connect an osilloscope t
CB board.
3. Adjust COLOUR control
obtain the correct wavef



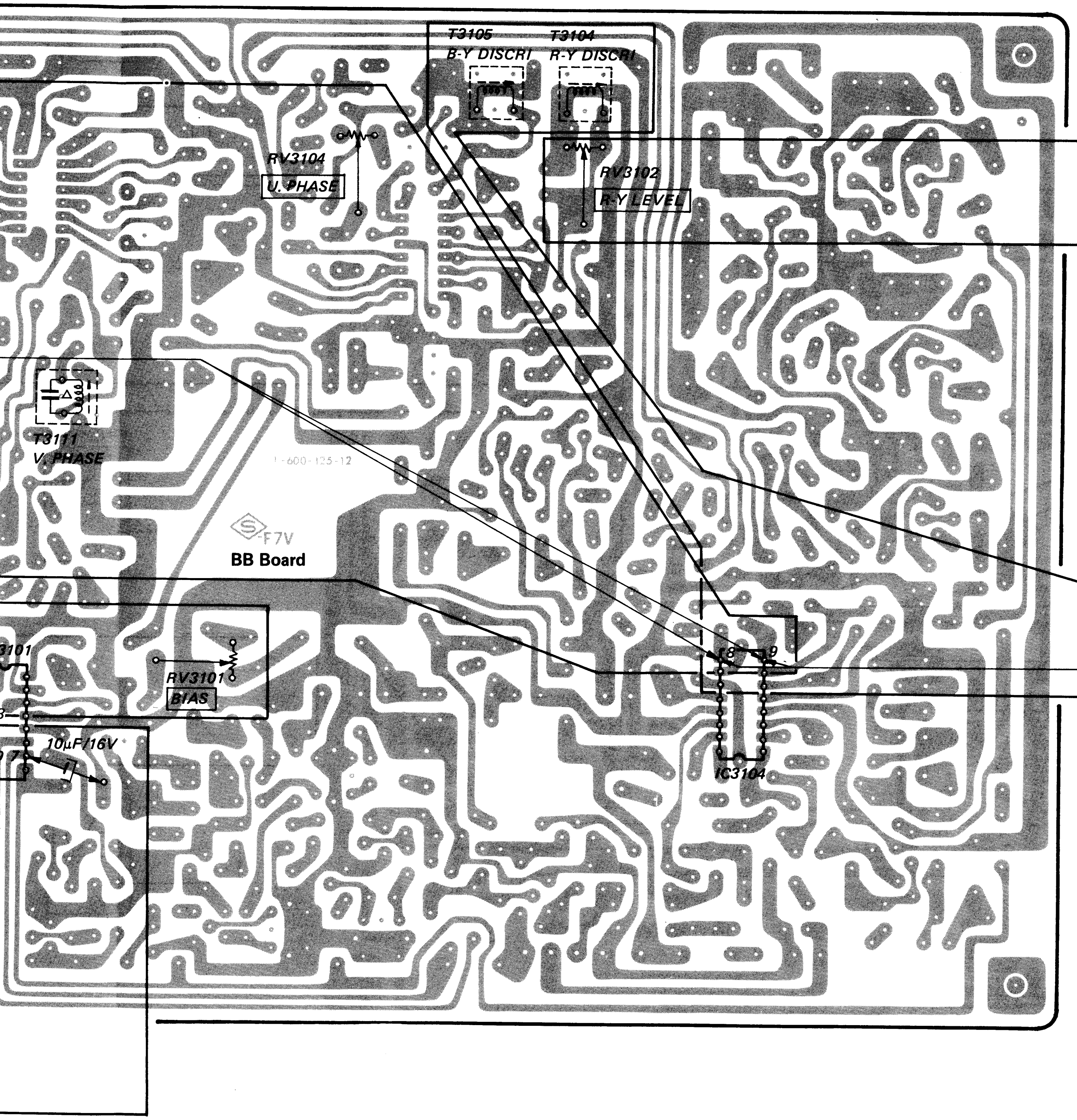
4, Connect an osilloscope t
board.
5. Adjust RV3102 to obtai
waveform as shown.




oscilloscope
+
V

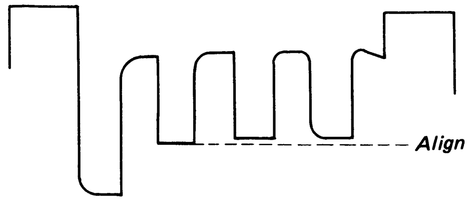
B
1.
2.
3.

R-
1.
2.
3.


T3105
B-Y DISCRI
T3104
R-Y DISCRI
RV3104
U. PHASE
RV3102
R-Y LEVEL
T3111
V. PHASE
1-600-125-12
F7V
BB Board
3101
RV3101
BIAS
10μF/16V
8
9
IC3104

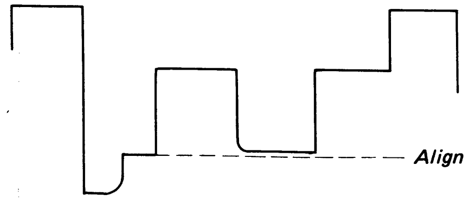
R-Y DISCRI LEVEL

1. Feed in a SECAM color-bar signal.
2. Connect an osilloscope to the pin 9 on CB board.
3. Adjust COLOUR control (RV9203) to obtain the correct waveform as shown.

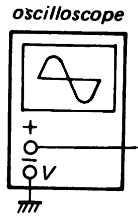


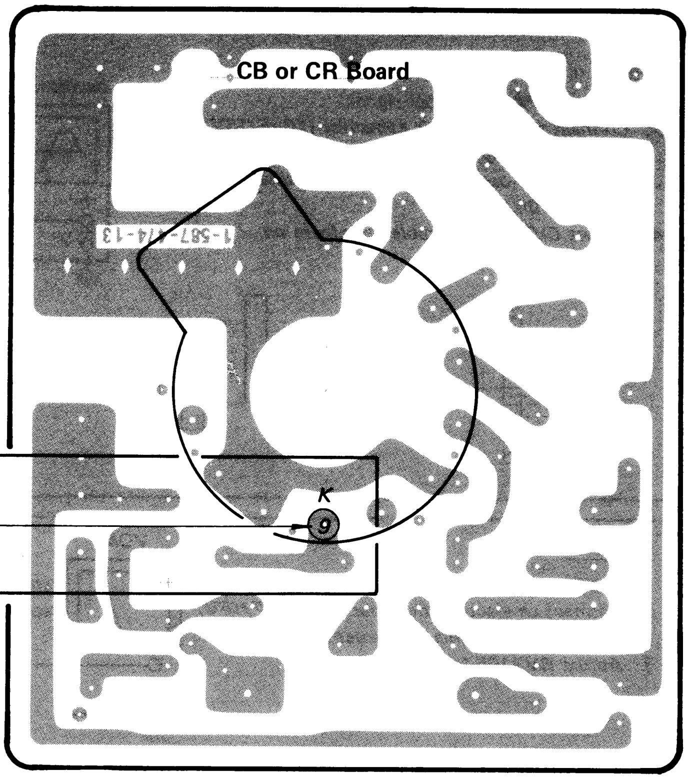
BLUE

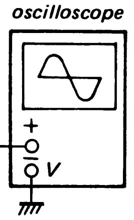
4. Connect an osilloscope to the pin 9 on CR board.
5. Adjust RV3102 to obtain the correct waveform as shown.



RED

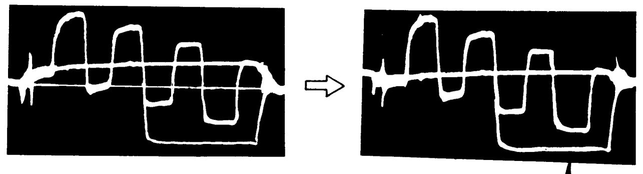

oscilloscope
+
V


CB or CR Board
1-587-414-13
K


oscilloscope
+
V

B-Y DISCRIMINATOR

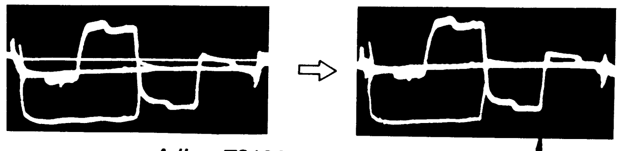
1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 8 of IC3104.
3. Adjust T3105 to obtain a correct waveform as show.



Adjust T3105 Correct waveform

R-Y DISCRIMINATOR

1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 9 of IC3104.
3. Adjust T3104 to obtain a correct waveform as shown.

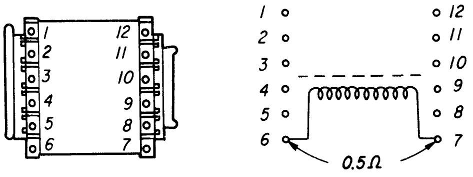


Adjust T3104 Correct waveform

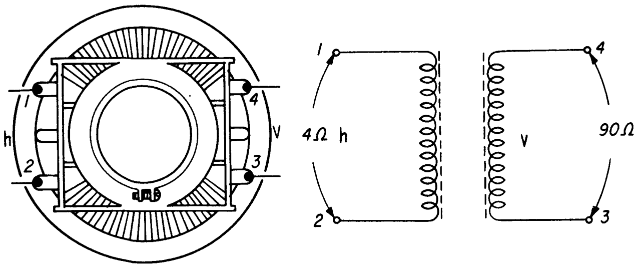
SECTION 5
DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

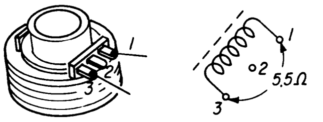
L801
HCA


1
2
3
4
5
6
12
11
10
9
8
7
0.5Ω

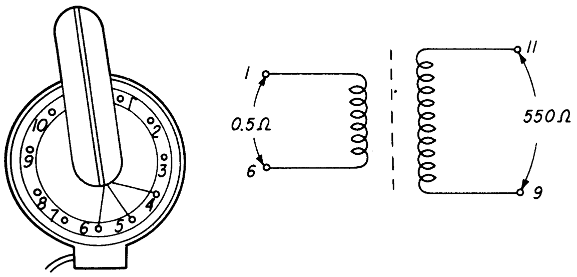
L5502 DY <R>
L5503 DY <G>
L5504 DY <B>


1
2
3
4
h
V
4Ω h
v
90Ω

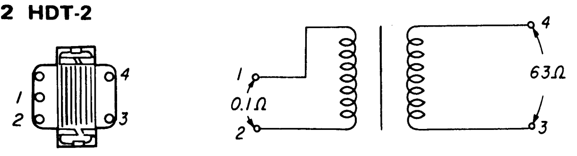
L5507 NECK ASS'Y <G>
L5508 NECK ASS'Y <R>
L5509 NECK ASS'Y <B>



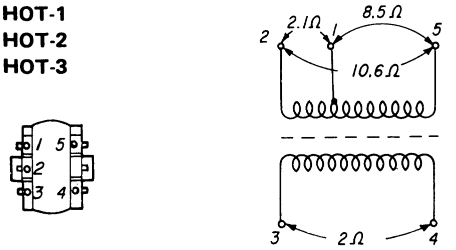
T801 FBT-1
T802 FBT-2


1
2
3
4
5
6
7
8
9
10
0.5Ω
11
550Ω

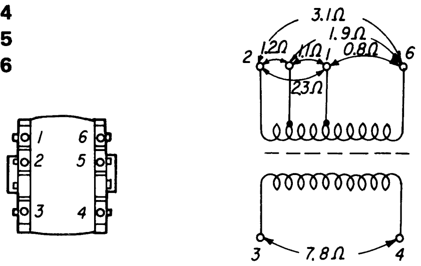
T5101 HDT-1
T5102 HDT-2


1
2
3
4
0.1Ω
63Ω

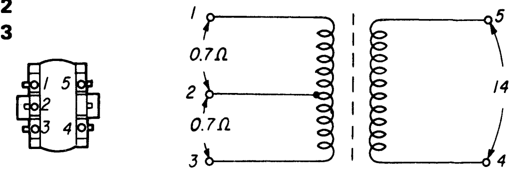
T5301 HOT-1
T5304 HOT-2
T5307 HOT-3


1
2
3
4
5
2.1Ω
8.5Ω
10.6Ω
2Ω

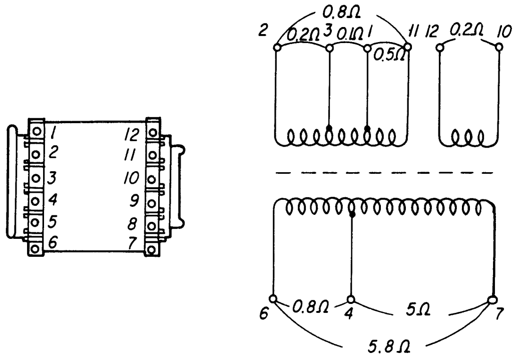
T5302 HOT-4
T5305 HOT-5
T5308 HOT-6


1
2
3
4
5
6
3.1Ω
1.9Ω
1.2Ω
1.1Ω
0.8Ω
23Ω
7.8Ω

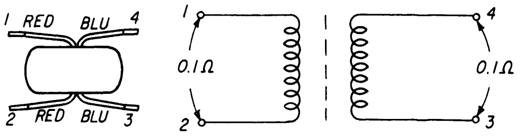
T5303 LOT-1
T5306 LOT-2
T5309 LOT-3


1
2
3
4
5
0.7Ω
0.7Ω
14Ω

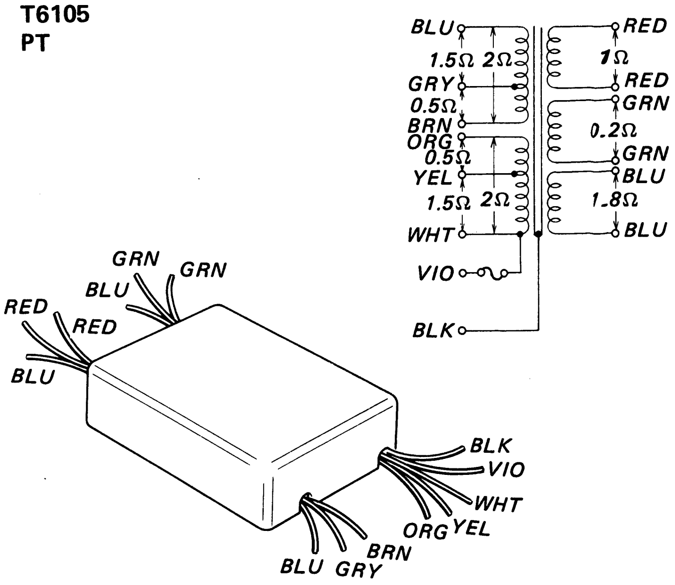
T5310
LOT-4


0.8Ω
2
0.2Ω
3
0.1Ω
1
0.5Ω
11
12
0.2Ω
10
1
2
3
4
5
6
12
11
10
9
8
7
6
0.8Ω
4
5Ω
7
5.8Ω

T6101 LFT-1
T6102 LFT-2
T6103 LFT-3
T6104 LFT-4


1 RED
BLU 4
2 RED
BLU 3
1
2
0.1Ω
4
3
0.1Ω

T6105
PT


BLU
1.5Ω 2Ω
GRY
0.5Ω
BRN
ORG
0.5Ω
YEL
1.5Ω 2Ω
WHT
VIO
BLK
RED
1Ω
RED
GRN
0.2Ω
GRN
BLU
1.8Ω
BLU
GRN
GRN
BLU
RED
RED
BLU
BLK
VIO
WHT
ORG
YEL
BRN
BLU
GRY

- DC resistance measurements shown with coils and transformers disconnected from circuit.

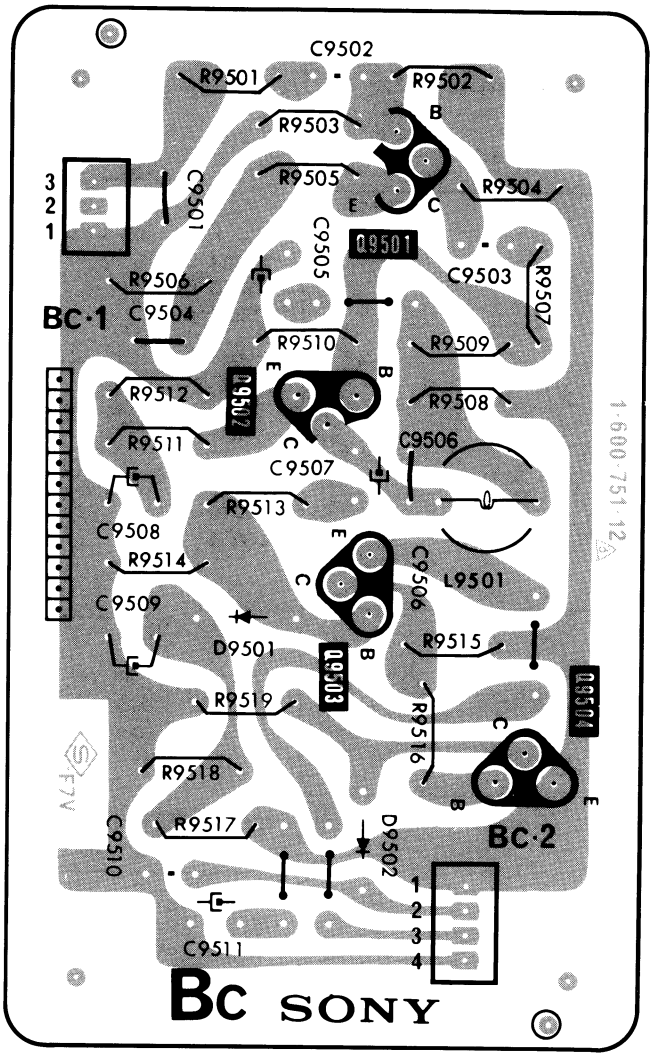
5-2. MOUNTING AND SCHEMATIC DIAGRAMS

Note: All mounting diagrams shown on the conductor side.

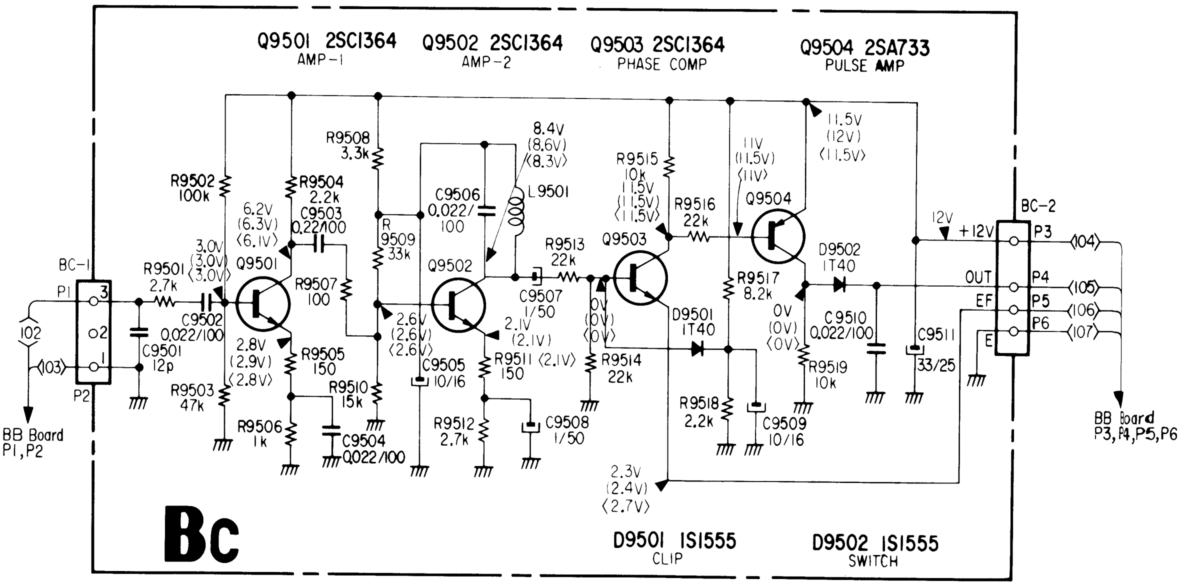
A B C D

1 2 3 4 5

MOUNTING DIAGRAM
– BC Board –


C9502
R9501
R9502
R9503
B
R9505
E
C
R9504
3
2
1
C9501
C9505
Q9501
C9503
R9507
R9506
C9504
BC·1
R9510
R9509
E
B
Q9502
R9512
R9508
R9511
C
C
C9507
C9506
1-600-751-12
C9508
R9513
E
R9514
C
C9506
L9501
C9509
D9501
B
Q9503
R9515
R9519
Q9504
C
R9516
R9518
B
E
R9517
D9502
BC·2
C9510
1
2
3
4
C9511
Bc SONY

SCHEMATIC DIAGRAM
– BC Board –


Q9501 2SC1364
AMP-1
Q9502 2SC1364
AMP-2
Q9503 2SC1364
PHASE COMP
Q9504 2SA733
PULSE AMP
R9508
3.3k
8.4V
(8.6V)
⟨8.3V⟩
R9515
10k
11.5V
(11.5V)
⟨11.5V⟩
11V
(11.5V)
⟨11V⟩
11.5V
(12V)
⟨11.5V⟩
R9502
100k
R9504
2.2k
C9503
0.22/100
6.2V
(6.3V)
⟨6.1V⟩
C9506
0.022/100
L9501
R9516
22k
Q9504
BC-2
12V
+12V
P3
⟨104⟩
R9509
33k
3.0V
(3.0V)
⟨3.0V⟩
R9513
22k
Q9503
D9502
1T40
BC-1
R9501
2.7k
Q9501
R9507
100
Q9502
C9507
1/50
R9517
8.2k
OUT
P4
⟨105⟩
P1
3
2
1
P2
C9502
0.022/100
2.6V
(2.6V)
⟨2.6V⟩
2.1V
(2.1V)
0V
(0V)
⟨0V⟩
D9501
1T40
0V
(0V)
⟨0V⟩
C9510
0.022/100
EF
P5
⟨106⟩
P6
⟨107⟩
E
102
103
C9501
12p
2.8V
(2.9V)
⟨2.8V⟩
R9505
150
C9505
10/16
R9511 ⟨2.1V⟩
150
R9514
22k
R9519
10k
C9511
33/25
R9503
47k
R9510
15k
R9518
2.2k
C9509
10/16
R9506
1k
C9504
0.022/100
R9512
2.7k
C9508
1/50
BB Board
P1, P2
BB Board
P3, P4, P5, P6
2.3V
(2.4V)
⟨2.7V⟩
Bc
D9501 1S1555
CLIP
D9502 1S1555
SWITCH

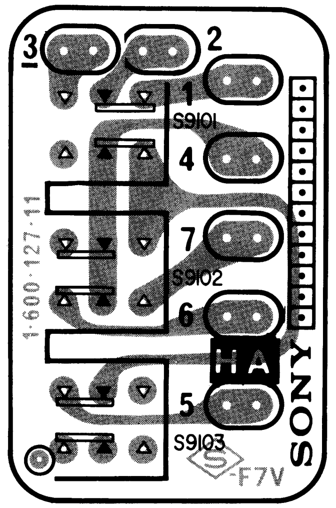
[COUSTOMER CONTROL] **HA**

HB [SCRN VOL]

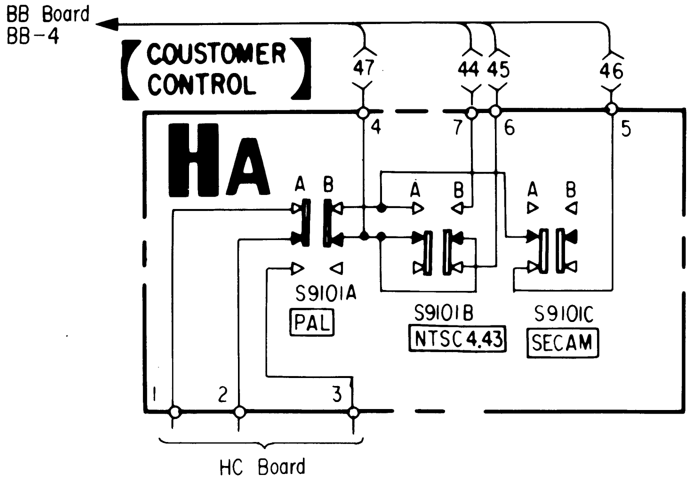
A B C D

1 2 3 4 5

MOUNTING DIAGRAM
— HA Board —


3
2
1
4
7
6
5
S9101
S9102
S9103
1-600-127-11
HA
SONY
F7V

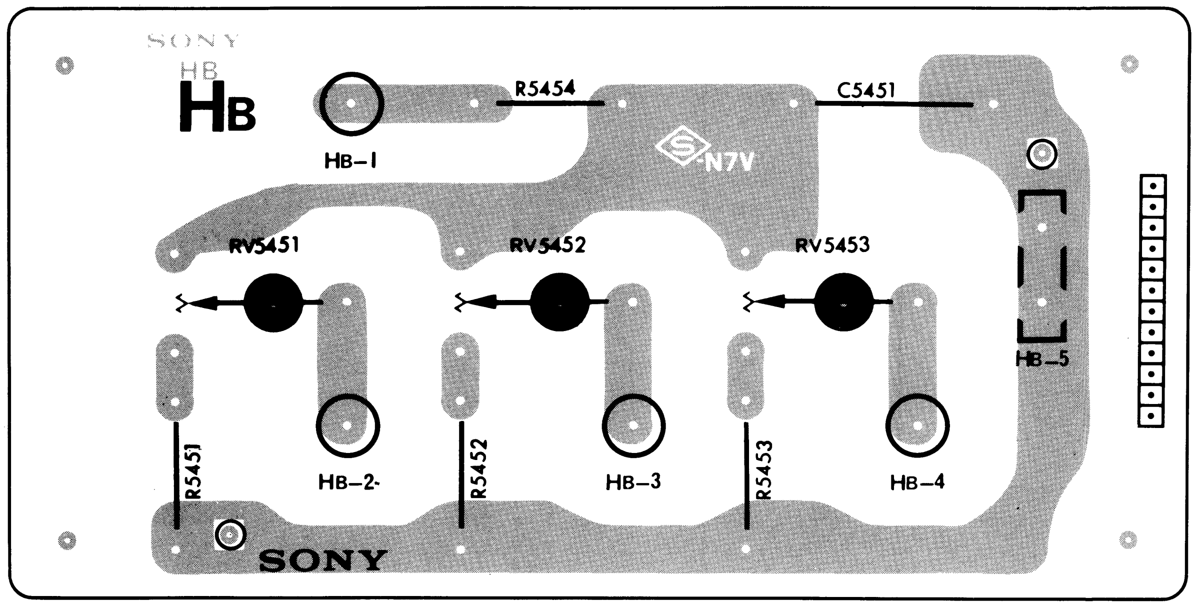
SCHEMATIC DIAGRAM
— HA Board —


BB Board
BB-4
COUSTOMER CONTROL
HA
47
44
45
46
4
7
6
5
A B
S9101A
PAL
S9101B
NTSC4.43
S9101C
SECAM
1
2
3
HC Board

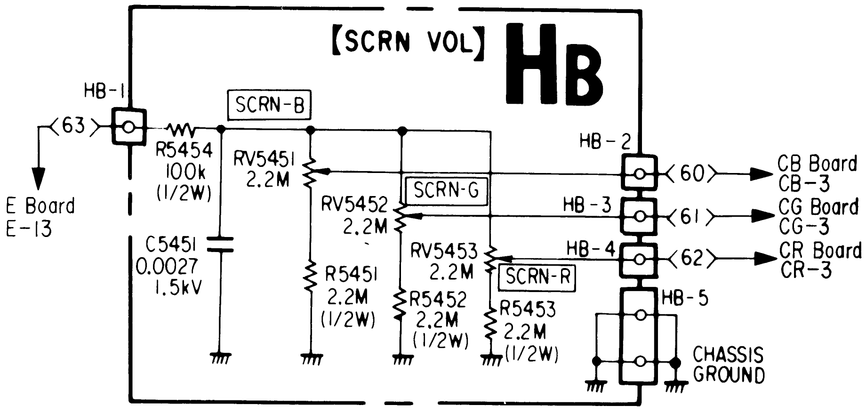
A B C D

1 2 3 4 5

MOUNTING DIAGRAM
— HB Board —


SONY
HB
R5454
C5451
HB-1
N7V
RV5451
RV5452
RV5453
HB-5
R5451
R5452
R5453
HB-2
HB-3
HB-4
SONY

SCHEMATIC DIAGRAM
— HB Board —

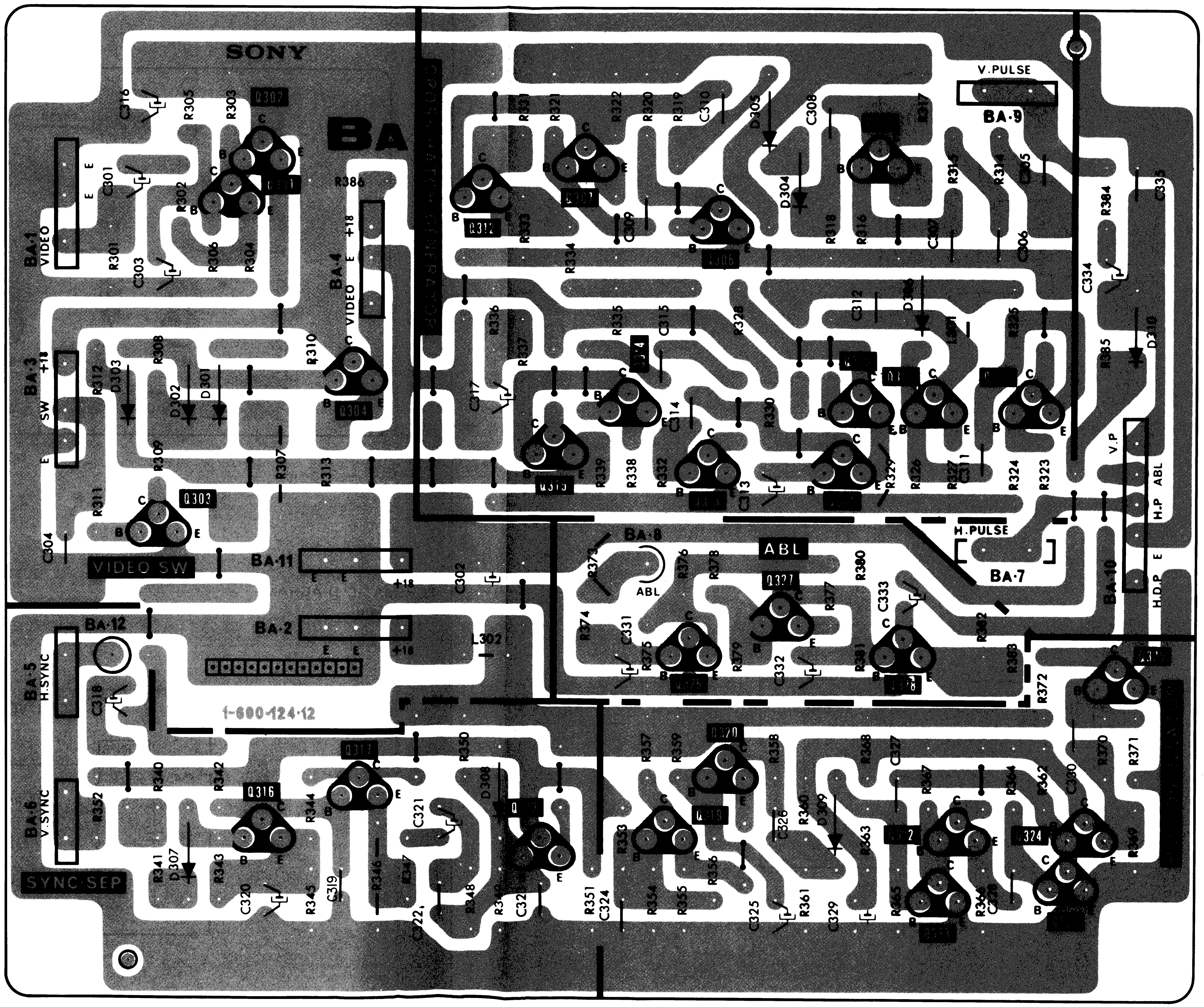

[SCRN VOL]
HB
HB-1
63
E Board
E-13
SCRN-B
R5454
100k
(1/2W)
RV5451
2.2M
C5451
0.0027
1.5kV
RV5452
2.2M
SCRN-G
RV5453
2.2M
SCRN-R
R5451
2.2M
(1/2W)
R5452
2.2M
(1/2W)
R5453
2.2M
(1/2W)
HB-2
60
CB Board
CB-3
HB-3
61
CG Board
CG-3
HB-4
62
CR Board
CR-3
HB-5
CHASSIS GROUND

	A	B	C	D	E	F	G

MOUNTING DIAGRAM

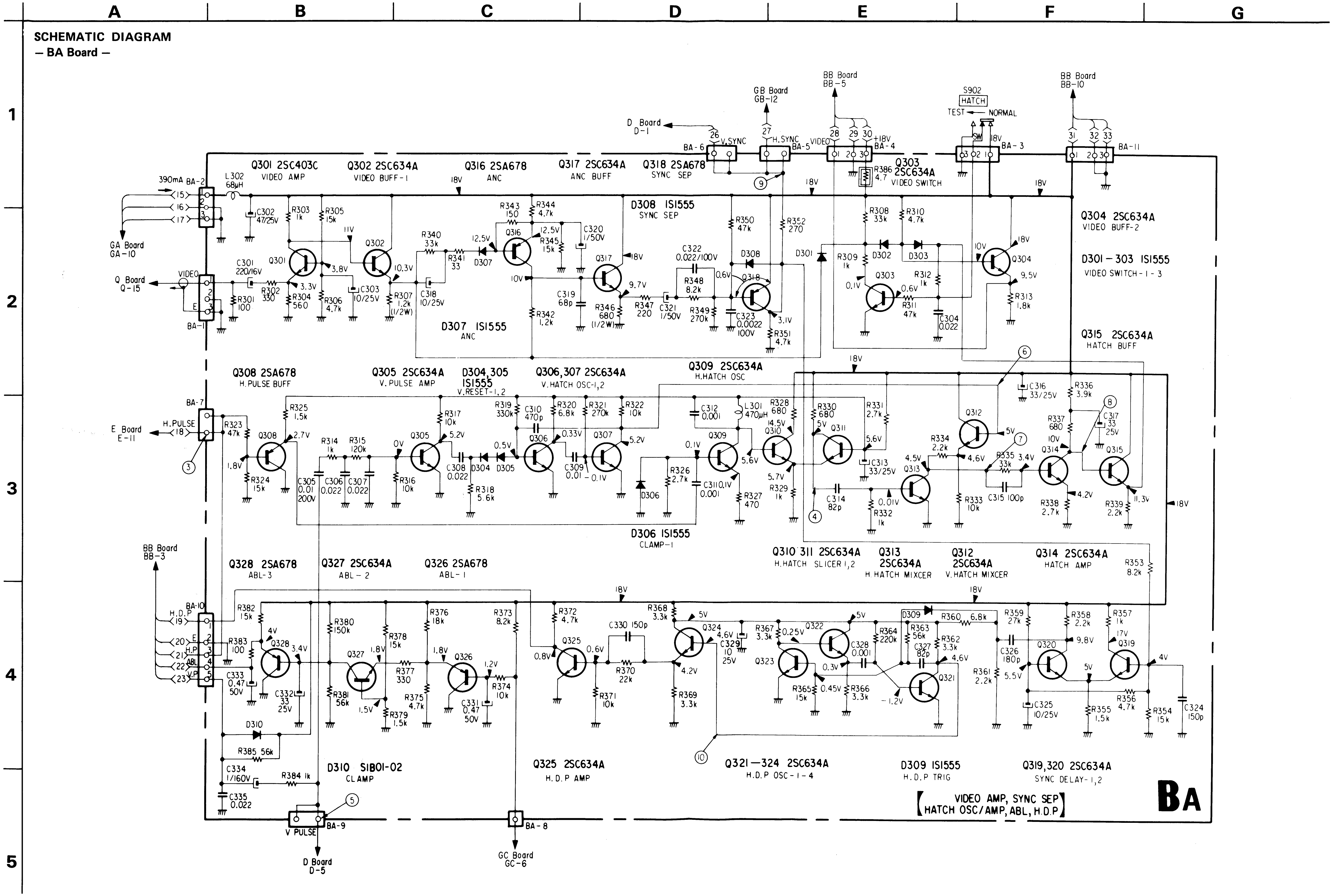
– BA Board –

IC, Q	D
	305
302	
307,305	
301,312	304
306	
	306
	310
304	
314,310	
309,308	303
	302
	301
315	
313,311	
303	
327	
326,328	
325	
320	
317	
	308
316	
319	309
322,324	
318	
	307
323,321	
IC, Q	D


1
2
3
4
5
SONY
BA
BA-1 VIDEO
E E
C316
R305
R303
Q307
C301
R302
Q301
R301
C303
R306
R304
R386
BA-4 VIDEO E +18
R310
Q304
BA-3 +18 SW E
R312
D303
R308
D302
D301
R309
R307
R313
R311
Q303
C304
VIDEO SW
BA-11 E E +18
BA-2 E E +18
C302
L302
BA-12
BA-5 H.SYNC
C318
1-600-124-12
BA-6 V.SYNC
SYNC SEP
R352
R340
R342
Q316
Q317
R344
R341
D307
R343
C320
R345
C319
R346
R347
R350
C321
D308
R348
R349
C322
C323
R351
C324
Q312
R333
R331
R321
R322
R320
R319
C310
D305
C308
R317
V.PULSE
BA-9
C309
Q305
R334
D304
R318
R316
C307
R314
R315
C305
C306
R384
C335
C334
R336
R337
C317
R335
C315
Q314
R328
C312
D306
L301
R386
R385
D310
C314
R330
Q313
Q315
R339
R338
R332
C313
R329
R326
R327
C311
R324
R323
V.P
ABL
H.P
H.PULSE
BA-7
BA-8
R373
ABL
R376
R378
ABL
Q327
R380
C333
R377
R374
C331
R375
Q325
R379
C332
R381
Q328
R382
R383
R372
BA-10 H.D.P E
R370
R371
Q370
R357
R359
R358
R368
C327
R353
Q319
R356
R354
R355
C326
R360
D309
R363
R367
R364
R362
C330
Q322
Q324
C325
R361
C329
R365
R366
R369
B C E

BA **BA** [VIDEO AMP, SYNC SEP HATCH OSC/AMP, ABL, H·D·P]

SCHEMATIC DIAGRAM
– BA Board –

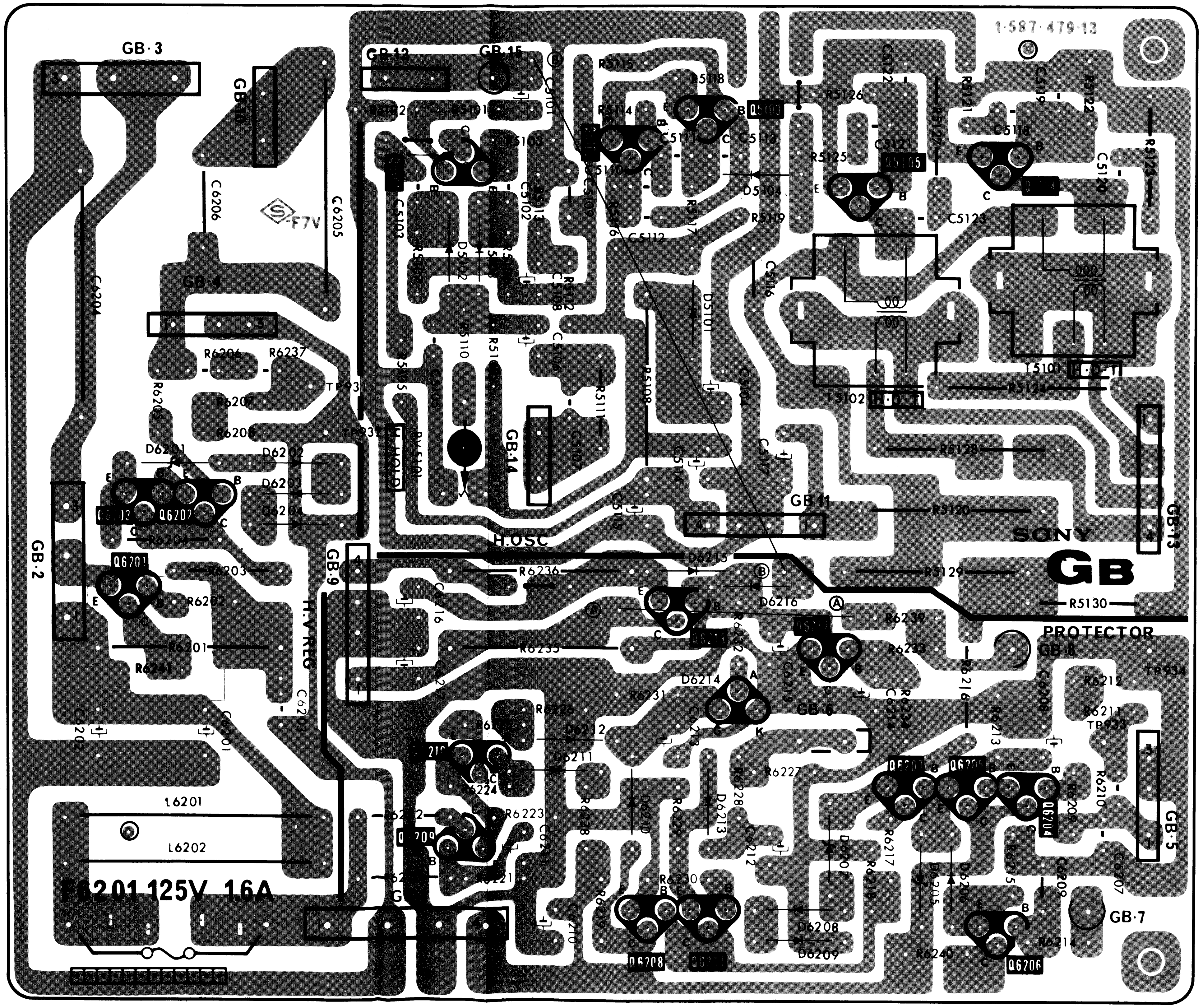

A
B
C
D
E
F
G
1
2
3
4
5
Q301 2SC403C VIDEO AMP
Q302 2SC634A VIDEO BUFF-1
Q316 2SA678 ANC
Q317 2SC634A ANC BUFF
Q318 2SA678 SYNC SEP
Q303 2SC634A VIDEO SWITCH
Q304 2SC634A VIDEO BUFF-2
D301-303 1S1555 VIDEO SWITCH-1-3
Q315 2SC634A HATCH BUFF
D307 1S1555 ANC
D308 1S1555 SYNC SEP
Q308 2SA678 H.PULSE BUFF
Q305 2SC634A V.PULSE AMP
D304,305 1S1555 V.RESET-1,2
Q306,307 2SC634A V.HATCH OSC-1,2
Q309 2SC634A H.HATCH OSC
D306 1S1555 CLAMP-1
Q310 311 2SC634A H.HATCH SLICER 1,2
Q313 2SC634A H.HATCH MIXCER
Q312 2SC634A V.HATCH MIXCER
Q314 2SC634A HATCH AMP
Q328 2SA678 ABL-3
Q327 2SC634A ABL-2
Q326 2SA678 ABL-1
D310 S1B01-02 CLAMP
Q325 2SC634A H.D.P AMP
Q321-324 2SC634A H.D.P OSC-1-4
D309 1S1555 H.D.P TRIG
Q319,320 2SC634A SYNC DELAY-1,2
D Board D-1
GB Board GB-12
BB Board BB-5
S902 HATCH
TEST NORMAL
BB Board BB-10
BA-6
V.SYNC
H.SYNC
BA-5
VIDEO
+18V
BA-4
BA-3
BA-11
390mA BA-2
L302 68μH
GA Board GA-10
Q Board Q-15
VIDEO
BA-1
E Board E-11
H.PULSE
BA-7
BB Board BB-3
H.D.P
BA-10
ABL
V.P
V PULSE
BA-9
D Board D-5
BA-8
GC Board GC-6
18V
R386 4.7
C302 47/25V
R303 1k
R305 15k
C301 220/16V
R302 330
R301 100
R304 560
R306 4.7k
C303 10/25V
R307 1.2k (1/2W)
C318 10/25V
R340 33k
R341 33
R343 150
R344 4.7k
R345 15k
C320 1/50V
C319 68p
R342 1.2k
R346 680 (1/2W)
R347 220
C321 1/50V
C322 0.022/100V
R348 8.2k
R349 270k
C323 0.0022 100V
R351 4.7k
R350 47k
R352 270
R308 33k
R310 4.7k
R309 1k
R312 1k
R311 47k
C304 0.022
R313 1.8k
C316 33/25V
R336 3.9k
R337 680
C317 33 25V
R325 1.5k
R323 47k
R324 15k
R314 1k
R315 120k
C305 0.01 200V
C306 0.022
C307 0.022
R316 10k
R317 10k
C308 0.022
R318 5.6k
R319 330k
C310 470p
R320 6.8k
R321 270k
R322 10k
C309 0.01
C312 0.001
L301 470μH
R328 680
R326 2.7k
C311 0.001
R327 470
R329 1k
R330 680
R331 2.7k
C313 33/25V
C314 82p
R332 1k
R333 10k
R334 2.2k
R335 33k
C315 100p
R338 2.7k
R339 2.2k
R353 8.2k
R382 15k
R383 100
C333 0.47 50V
C332 33 25V
R380 150k
R381 56k
R378 15k
R377 330
R379 1.5k
R375 4.7k
R376 18k
C331 0.47 50V
R373 8.2k
R374 10k
R385 56k
C334 1/160V
R384 1k
C335 0.022
R372 4.7k
C330 150p
R370 22k
R371 10k
R368 3.3k
C329 10 25V
R369 3.3k
R367 3.3k
R365 15k
R366 3.3k
C328 0.001
R364 220k
R363 56k
C327 82p
R362 3.3k
R360 6.8k
R359 27k
C326 180p
R361 2.2k
C325 10/25V
R358 2.2k
R357 1k
R355 1.5k
R356 4.7k
R354 15k
C324 150p
3.8V
3.3V
11V
10.3V
12.5V
10V
9.7V
0.6V
3.1V
0.1V
9.5V
2.7V
1.8V
0V
5.2V
0.5V
0.33V
0.1V
14.5V
5.6V
5.7V
0.01V
4.5V
4.6V
3.4V
4.2V
11.3V
4V
3.4V
1.5V
1.2V
0.8V
5V
0.25V
0.3V
0.45V
-1.2V
9.8V
17V
5.5V
VIDEO AMP, SYNC SEP HATCH OSC/AMP, ABL, H.D.P
BA

[H. OSC, H. DRIVE HV. REG, PROTECT] **GB** **GB**

A	B	C	D	E	F	G

MOUNTING DIAGRAM
— GB Board —

IC, Q	D
5103	
5102	
5101 5104	
	5104
5105	
	5102,5103
	5101
	6201,6202
6203,6202	6203
	6204
	6215
6201	6216
6213	
6212	
	6214
	6212
6210	
	6211
6207	
6205	
6204	6210,6213
6209	
	6207
	6205,6206
6208,6211	6208
6206	
	6209
IC, Q	D


1
2
3
4
5
1-587-479-13
GB·3
GB·10
GB·12
GB·15
GB·4
GB·2
GB·9
GB·14
GB·11
GB·13
GB·6
GB·8
GB·7
GB·5
GB·1
C6206
C6205
C6204
F7V
R5102
R5101
R5103
C5101
R5115
R5114
R5118
Q5103
C5111
C5113
C5110
C5109
R5126
C5122
R5121
C5119
R5122
R5123
C5118
C5121
Q5105
R5127
R5125
D5104
R5119
C5123
C5120
C5103
D5102
C5102
R5113
R5116
C5112
R5117
C5108
R5112
D5101
C5116
C5106
R5110
R5109
R5111
R5108
C5104
C5105
C5107
C5114
C5117
C5115
T5101 H·D·T
T5102 H·D·T
R5124
R5128
R5120
R5129
R5130
SONY
GB
PROTECTOR
H.OSC
H.V.REG
R6206
R6237
R6205
R6207
R6208
TP931
TP932
D6201
D6202
D6203
D6204
Q6203
Q6202
R6204
Q6201
R6203
R6202
R6201
R6241
D6215
R6236
D6216
R6239
R6233
R6235
R6232
C6215
D6214
R6231
R6226
D6212
D6211
R6224
R6223
R6222
R6221
Q6209
C6216
C6213
C6211
C6210
C6203
C6202
C6201
R6212
R6211
TP933
TP934
R6216
C6208
C6214
R6234
R6213
R6227
R6228
D6213
R6229
D6210
C6212
D6207
R6217
R6218
Q6207
Q6205
Q6204
R6210
R6209
R6215
C6209
C6207
D6205
D6206
R6230
R6219
D6208
D6209
R6240
R6214
Q6206
Q6208
Q6211
L6201
L6202
F6201 125V 1.6A
HOLD
E
B
C
A
K

GB **GB** [H. OSC, H. DRIVE HV. REG, PROTECT]

A B C D E F G

SCHEMATIC DIAGRAM
– GB Board –

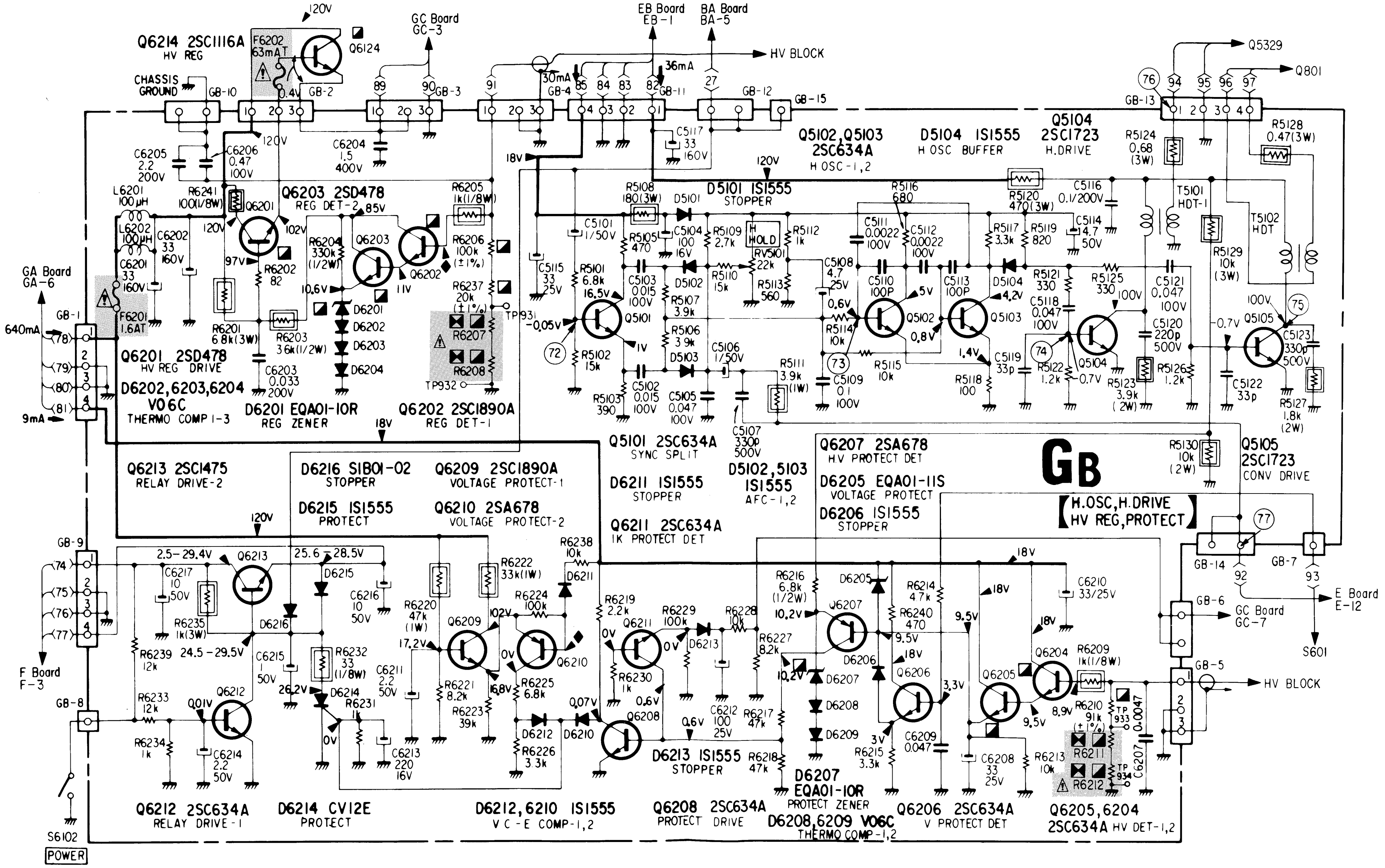
1

2

3

4

5


Q6214 2SC1116A HV REG
F6202 63mAT
Q6124
120V
GC Board GC-3
EB Board EB-1
BA Board BA-5
HV BLOCK
36mA
30mA
Q5329
Q801
CHASSIS GROUND
GB-10
GB-2
GB-3
GB-4
GB-11
GB-12
GB-15
GB-13
89 90 91 85 84 83 82 27
76 94 95 96 97
C6205 2.2 200V
C6206 0.47 100V
C6204 1.5 400V
L6201 100μH
L6202 100μH
R6241 100(1/8W)
Q6201
C6202 33 160V
C6201 33 160V
Q6203 2SD478 REG DET-2
R6204 330k (1/2W)
R6205 1k(1/8W)
R6206 100k (±1%)
R6237 20k (±1%)
R6207
R6208
TP931
TP932
Q6202
D6201
D6202
D6203
D6204
R6202 82
R6201 6.8k(3W)
R6203 3.6k(1/2W)
C6203 0.033 200V
GA Board GA-6
GB-1
640mA
F6201 1.6AT
78 79 80 81
9mA
Q6201 2SD478 HV REG DRIVE
D6202,6203,6204 V06C THERMO COMP 1-3
D6201 EQA01-10R REG ZENER
Q6202 2SC1890A REG DET-1
18V
Q5102,Q5103 2SC634A H OSC-1,2
D5104 1S1555 H OSC BUFFER
Q5104 2SC1723 H.DRIVE
R5124 0.68 (3W)
R5128 0.47(3W)
R5108 180(3W)
D5101
D5101 1S1555 STOPPER
R5116 680
R5120 470(3W)
C5116 0.1/200V
T5101 HDT-1
T5102 HDT
C5101 1/50V
R5105 470
C5104 100 16V
R5109 2.7k
H HOLD RV5101 22k
R5112 1k
C5111 0.0022 100V
C5112 0.0022 100V
R5117 3.3k
R5119 820
C5114 4.7 50V
R5129 10k (3W)
C5115 33 25V
R5101 6.8k
Q5101
D5102
R5110 15k
R5113 560
C5108 4.7 25V
C5110 100P
C5113 100P
D5104
R5121 330
R5125 330
C5121 0.047 100V
C5118 0.047 100V
C5120 220p 500V
Q5105
C5123 330p 500V
C5103 0.015 100V
R5107 3.9k
R5106 3.9k
D5103
C5106 1/50V
Q5102
Q5103
R5114 10k
R5115 10k
R5118 100
C5119 33p
R5122 1.2k
R5123 3.9k (2W)
R5126 1.2k
C5122 33p
R5127 1.8k (2W)
R5102 15k
R5103 390
C5102 0.015 100V
C5105 0.047 100V
R5111 3.9k (1W)
C5109 0.1 100V
C5107 330p 500V
Q5101 2SC634A SYNC SPLIT
D5102,5103 1S1555 AFC-1,2
D6211 1S1555 STOPPER
Q6211 2SC634A IK PROTECT DET
Q6207 2SA678 HV PROTECT DET
D6205 EQA01-11S VOLTAGE PROTECT
D6206 1S1555 STOPPER
GB [H.OSC,H.DRIVE HV REG,PROTECT]
R5130 10k (2W)
Q5105 2SC1723 CONV DRIVE
GB-14
GB-7
92 93
E Board E-12
GC Board GC-7
GB-6
S601
GB-5
HV BLOCK
Q6213 2SC1475 RELAY DRIVE-2
D6216 S1B01-02 STOPPER
D6215 1S1555 PROTECT
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
GB-9
74 75 76 77
2.5–29.4V
25.6–28.5V
C6217 10 50V
R6235 1k(3W)
24.5–29.5V
R6239 12k
D6216
D6215
C6216 10 50V
R6220 47k (1W)
R6222 33k(1W)
R6224 100k
R6238 10k
D6211
Q6209
Q6210
R6219 2.2k
Q6211
R6229 100k
D6213
R6228 10k
R6216 6.8k (1/2W)
D6205
Q6207
R6214 4.7k
R6240 470
C6210 33/25V
Q6204
R6209 1k(1/8W)
F Board F-3
GB-8
R6233 12k
Q6212
R6234 1k
C6214 2.2 50V
C6215 1 50V
R6232 33 (1/8W)
D6214
R6231 1k
C6211 2.2 50V
C6213 220 16V
R6221 8.2k
R6223 39k
R6225 6.8k
D6212
D6210
R6226 3.3k
Q6208
R6230 1k
C6212 100 25V
R6217 47k
R6227 8.2k
D6207
D6208
D6209
Q6206
R6215 3.3k
C6209 0.047
Q6205
C6208 33 25V
R6213 10k
R6210 91k (±1%)
R6211
R6212
TP933
TP934
C6207 0.0047
S6102 POWER
Q6212 2SC634A RELAY DRIVE-1
D6214 CV12E PROTECT
D6212,6210 1S1555 VC-E COMP-1,2
Q6208 2SC634A PROTECT DRIVE
D6213 1S1555 STOPPER
R6218 47k
D6207 EQA01-10R PROTECT ZENER
D6208,6209 V06C THERMO COMP-1,2
Q6206 2SC634A V PROTECT DET
Q6205,6204 2SC634A HV DET-1,2

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CHROMA, Y AMP, SYSTEM SW
KILLER SW, APC, CW AMP
R·G·B OUT, 12V REG

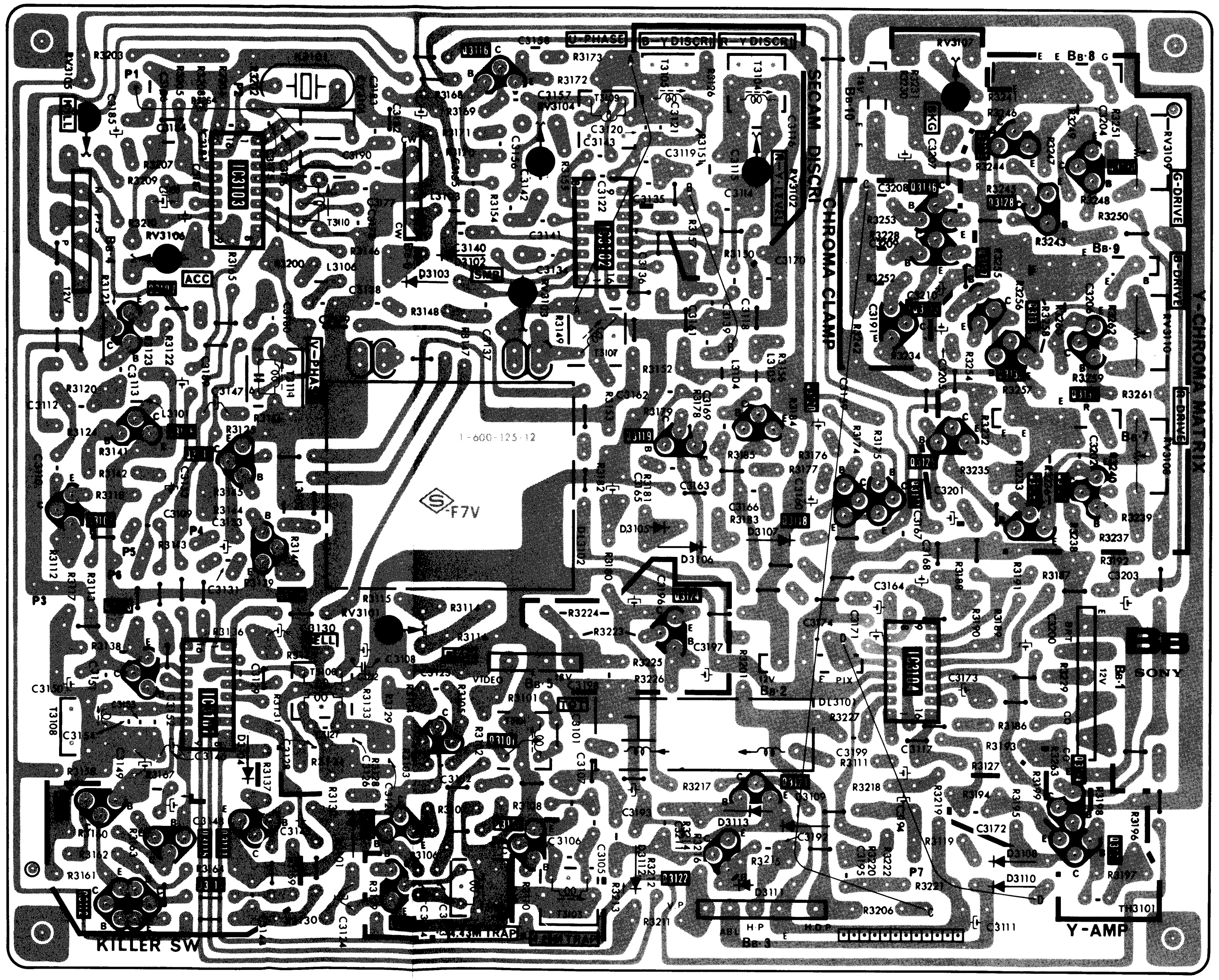
BB **BB**

A B C D E F G

1 2 3 4 5

MOUNTING DIAGRAM
— BB Board —

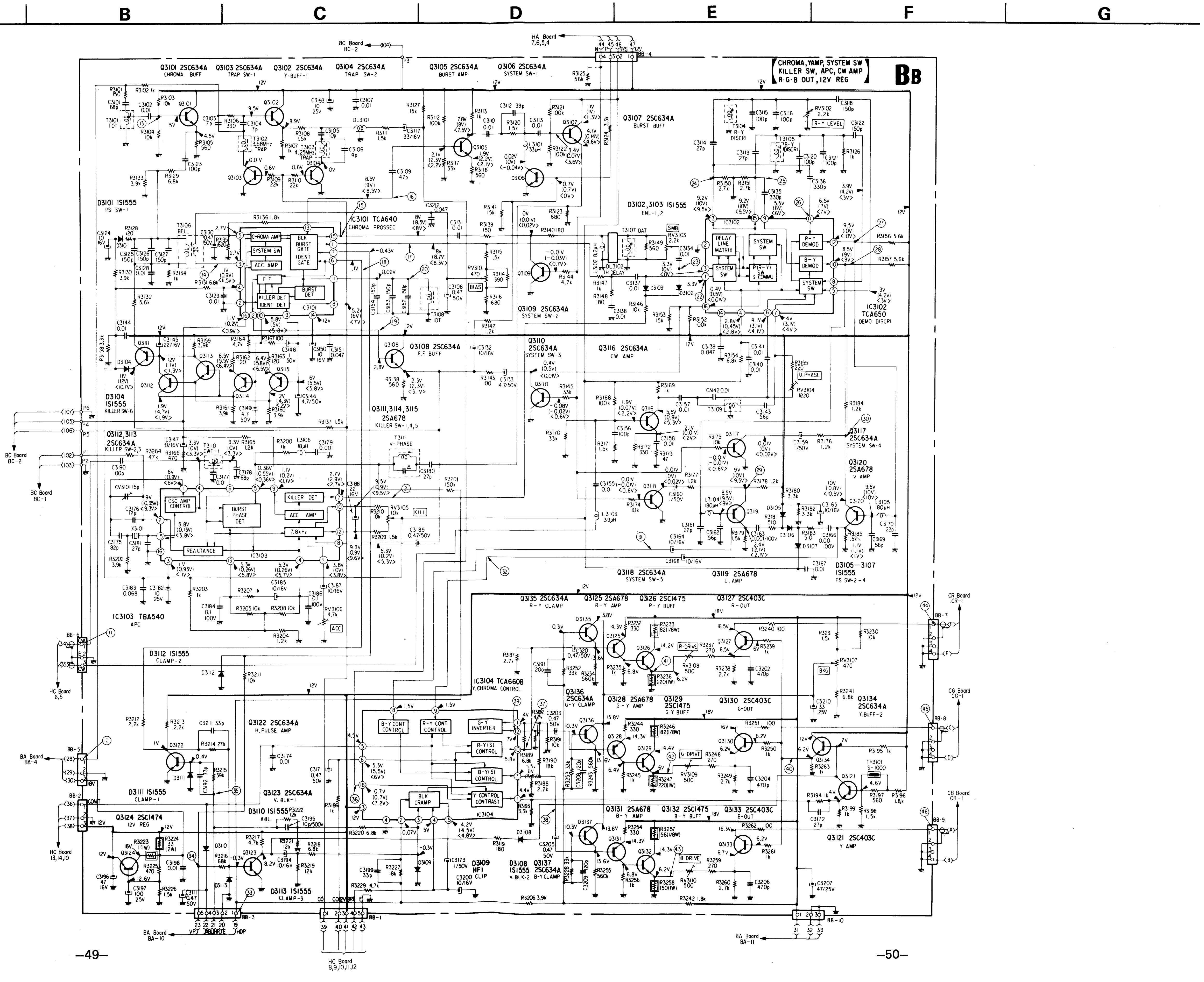
IC , Q	D	ADJ
3116		
		RV3107
		RV3105
		RV3109
3129		
		RV3104
3130		RV3102
3128		
3136		
3137	3102	RV3106
	3103	RV3103
3135,3131		
3107 3133		RV3110
3132		
3120		
3106		
3119,3125		
3110		RV3108
3127		
3118,3117		
3105		
3126	3105	
	3107	
3109	3106	
		RV3101
3124		
3108		
IC3101		
3101		
	3104	
3123		
3134		
3114	3113	
3111,3102	3101 3109	
3104 3121		
3115 3122		
	3108	
3103	3112,3110	
3112,3113	3111	
IC , Q	D	ADJ


KILLER SW
Y-AMP
SECAM DISCRI
CHROMA CLAMP
Y-CHROMA MATRIX
V-PHASE
U-PHASE
V DISCRI
U DISCRI
ACC
G-DRIVE
B-DRIVE
R-DRIVE
IC3103
IC3101
IC3104
RV3106
RV3107
RV3101
VIDEO
PIX
DL3101
1-600-125-12
F7V
BB
SONY
Bb-1
Bb-3
Bb-7
Bb-8
Bb-9
12V
P1
P3
P7
TH3101

BB **BB**

CHROMA, Y AMP, SYSTEM SW
KILLER SW, APC, CW AMP
R-G-B OUT, 12V REG

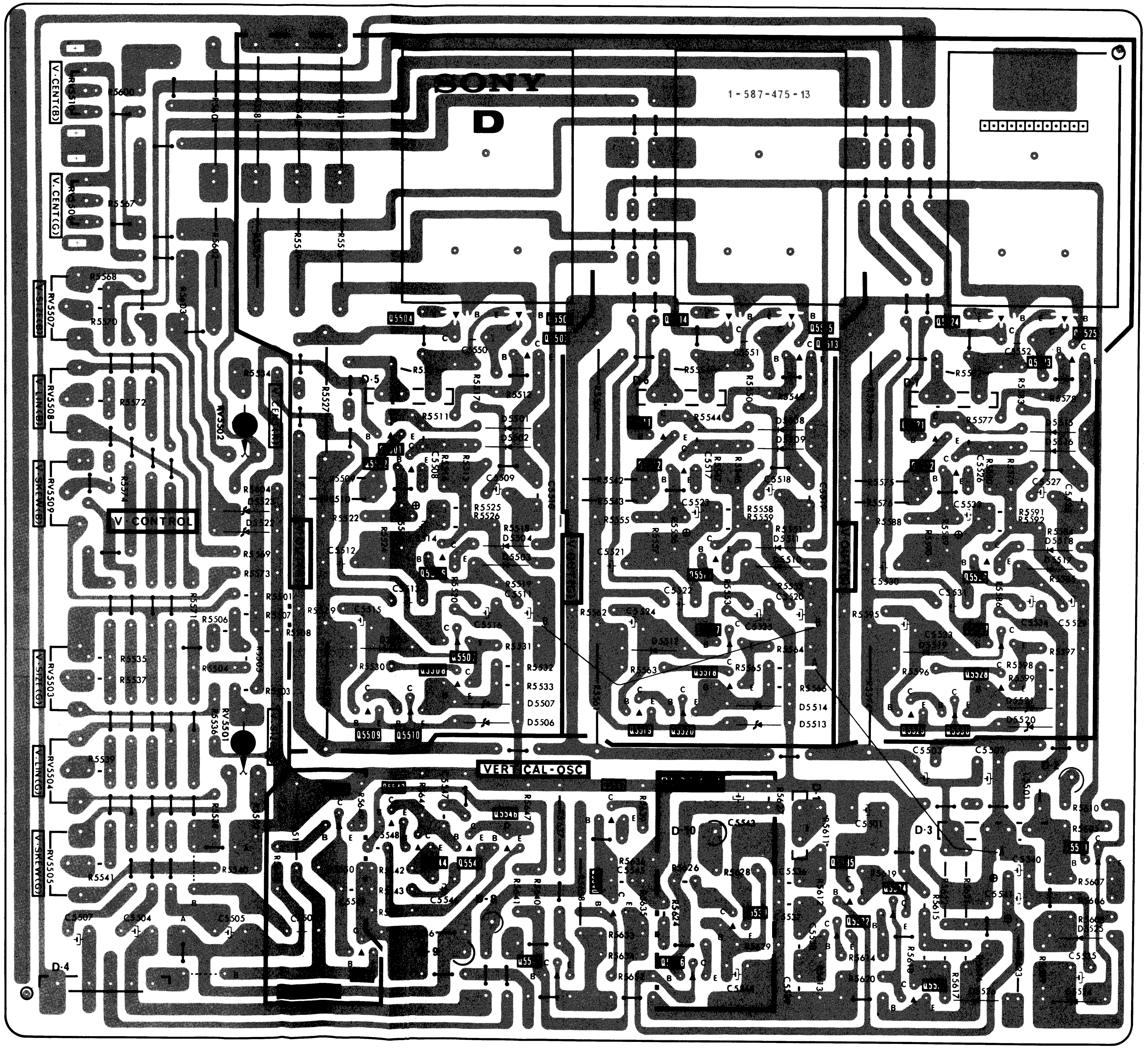
SCHEMATIC DIAGRAM
— BB Board —


A
B
C
D
E
F
G
1
2
3
4
5
CHROMA, YAMP, SYSTEM SW
KILLER SW, APC, CW AMP
R-G-B OUT, 12V REG
BB
Q3101 2SC634A CHROMA BUFF
Q3103 2SC634A TRAP SW-1
Q3102 2SC634A Y BUFF-1
Q3104 2SC634A TRAP SW-2
Q3105 2SC634A BURST AMP
Q3106 2SC634A SYSTEM SW-1
Q3107 2SC634A BURST BUFF
D3101 1S1555 PS SW-1
IC3101 TCA640 CHROMA PROSSEC
CHROMA AMP
SYSTEM SW
ACC AMP
BLK BURST GATE IDENT GATE
F.F
KILLER DET IDENT DET
BURST DET
Q3108 2SC634A F.F BUFF
Q3109 2SC634A SYSTEM SW-2
D3102, 3103 1S1555 ENL-1, 2
T3107 DAT
DL3102 1H DELAY
DELAY LINE MATRIX
SYSTEM SW
R-Y DEMOD
B-Y DEMOD
IC3102 TCA650 DEMO DISCRI
T3104 R-Y DISCRI
T3105 B-Y DISCRI
R-Y LEVEL
Q3104 2SC634A
Q3110 2SC634A SYSTEM SW-3
Q3116 2SC634A CW AMP
U.PHASE
D3104 1S1555 KILLER SW-6
Q3111, 3114, 3115 2SA678 KILLER SW-1, 4, 5
Q3112, 3113 2SC634A KILLER SW-2, 3
T3111 V-PHASE
OSC AMP CONTROL
BURST PHASE DET
KILLER DET
ACC AMP
7.8kHz
REACTANCE
IC3103 TBA540 APC
KILL
ACC
Q3117 2SC634A SYSTEM SW-4
Q3120 2SA678 V AMP
Q3118 2SC634A SYSTEM SW-5
Q3119 2SA678 U. AMP
D3105 – 3107 1S1555 PS SW-2 – 4
D3112 1S1555 CLAMP-2
Q3122 2SC634A H.PULSE AMP
D3111 1S1555 CLAMP-1
Q3123 2SC634A V. BLK-1
D3110 1S1555 ABL
Q3124 2SC1474 12V REG
D3113 1S1555 CLAMP-3
IC3104 TCA660B Y.CHROMA CONTROL
B-Y CONT CONTROL
R-Y CONT CONTROL
G-Y INVERTER
R-Y(S) CONTROL
B-Y(S) CONTROL
Y CONTROL CONTRAST
BLK CRAMP
D3109 HF1
D3108 1S1555 V. BLK-2
Q3137 2SC634A B-Y CLAMP
Q3135 2SC634A R-Y CLAMP
Q3125 2SA678 R-Y AMP
Q3126 2SC1475 R-Y BUFF
Q3127 2SC403C R-OUT
R-DRIVE
Q3136 2SC634A G-Y CLAMP
Q3128 2SA678 G-Y AMP
Q3129 2SC1475 G-Y BUFF
Q3130 2SC403C G-OUT
G DRIVE
Q3131 2SA678 B-Y AMP
Q3132 2SC1475 B-Y BUFF
Q3133 2SC403C B-OUT
B DRIVE
Q3134 2SC634A Y.BUFF-2
Q3121 2SC403C Y AMP
BKG
HA Board 7,6,5,4
BC Board BC-2
BC Board BC-1
HC Board 6,5
BA Board BA-4
HC Board 13,14,10
BA Board BA-10
HC Board 8,9,10,11,12
BA Board BA-11
CR Board CR-1
CG Board CG-1
CB Board CB-1
BB-1
BB-2
BB-3
BB-4
BB-5
BB-6
BB-7
BB-8
BB-9
BB-10

V. OSC, V. CENT
V. OUT, PARABOLA **D** **D**

MOUNTING DIAGRAM
– D Board –

IC , Q	D	ADJ
		RV5510
		RV5506
5504,5505 5514,5515 5524,5525		RV5507
5523		
5503,5513		
		RV5508
5501,5511 5521	5501,5508 5515	RV5502
	5502,5509 5516	
5502,5512 5522		
		RV5509
	5523	
	5522	
5506,5516 5526	5504,5511 5518	
	5503,5510 5517	
5507,5517 5527	5505,5512 5519	
5508,5518 5528		RV5503
	5507,5514 5521	
5509,5510 5519,5520 5529,5530	5506,5513 5520	
		RV5501
		RV5504
5547,5543 5542		
5544,5545 5546		
5531		RV5505
5535		
5540,5534		
5539 5532	5525	
5548		
5541,5536		
5533	5526,5524	
IC , Q	D	ADJ


A
B
C
D
E
F
G
1
2
3
4
5
SONY
D
1-587-475-13
V.CENT(B)
V.CENT(G)
RV5507
RV5508
RV5509
RV5503
RV5504
RV5505
V.CONTROL
VERTICAL-OSC
RV5502
RV5501
D-5
D-6
D-3
D-4
D-10
Q5504
Q5509
Q5510
Q5519
Q5520
R5568
R5570
R5572
R5535
R5537
R5539
R5541
C5507
C5504
C5505
D5507
D5506
D5514
D5513
D5520

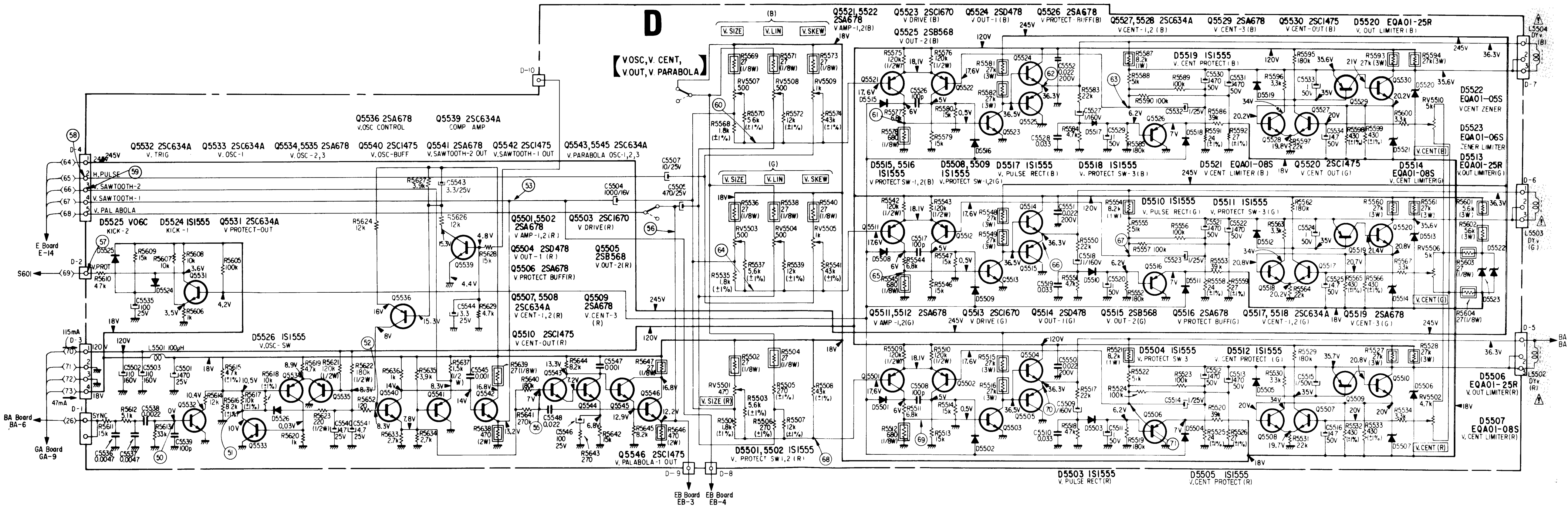
A	B	C	D	E	F	G	H

SCHEMATIC DIAGRAM
– D Board –

1

2

3


D
[VOSC, V. CENT,
V OUT, V PARABOLA]
Q5532 2SC634A V. TRIG
Q5533 2SC634A V. OSC-1
Q5534,5535 2SA678 V. OSC-2,3
Q5536 2SA678 V.OSC CONTROL
Q5539 2SC634A COMP AMP
Q5540 2SC1475 V. OSC-BUFF
Q5541 2SA678 V.SAWTOOTH-2 OUT
Q5542 2SC1475 V.SAWTOOTH-1 OUT
Q5543,5545 2SC634A V.PARABOLA OSC-1,2,3
D5525 V06C KICK-2
D5524 1S1555 KICK-1
Q5531 2SC634A V PROTECT-OUT
D5526 1S1555 V.OSC-SW
Q5501,5502 2SA678 V AMP-1,2(R)
Q5503 2SC1670 V DRIVE(R)
Q5504 2SD478 V OUT-1 (R)
Q5505 2SB568 V OUT-2(R)
Q5506 2SA678 V PROTECT BUFFER(R)
Q5507, 5508 2SC634A V CENT-1,2(R)
Q5509 2SA678 V.CENT-3 (R)
Q5510 2SC1475 V CENT-OUT(R)
Q5546 2SC1475 V. PALABOLA-1 OUT
D5501,5502 1S1555 V. PROTECT SW1,2 (R)
Q5521,5522 2SA678 V AMP-1,2(B)
Q5523 2SC1670 V DRIVE (B)
Q5524 2SD478 V OUT-1 (B)
Q5525 2SB568 V OUT-2 (B)
Q5526 2SA678 V PROTECT BUFF(B)
Q5527,5528 2SC634A V.CENT-1,2 (B)
Q5529 2SA678 V CENT-3 (B)
Q5530 2SC1475 V CENT-OUT (B)
D5520 EQA01-25R V. OUT LIMITER (B)
D5519 1S1555 V. CENT PROTECT (B)
D5515, 5516 1S1555 V PROTECT SW-1,2(B)
D5508, 5509 1S1555 V. PROTECT SW-1,2(G)
D5517 1S1555 V. PULSE RECT(B)
D5518 1S1555 V. PROTECT SW-3(B)
D5521 EQA01-08S V CENT LIMITER (B)
Q5520 2SC1475 V CENT OUT (G)
D5514 EQA01-08S V. CENT LIMITER(G)
D5510 1S1555 V. PULSE RECT(G)
D5511 1S1555 V. PROTECT SW-3(G)
Q5511,5512 2SA678 V AMP-1,2(G)
Q5513 2SC1670 V DRIVE (G)
Q5514 2SD478 V OUT-1(G)
Q5515 2SB568 V OUT-2(G)
Q5516 2SA678 V PROTECT BUFF(G)
Q5517, 5518 2SC634A V CENT-1,2(G)
Q5519 2SA678 V CENT-3(G)
D5504 1S1555 V. PROTECT SW 3
D5512 1S1555 V. CENT PROTECT (G)
D5503 1S1555 V. PULSE RECT(R)
D5505 1S1555 V.CENT PROTECT (R)
D5522 EQA01-05S V.CENT ZENER
D5523 EQA01-06S ZENER LIMITER
D5513 EQA01-25R V.OUT LIMITER(G)
D5506 EQA01-25R V. OUT LIMITER(R)
D5507 EQA01-08S V. CENT LIMITER(R)
V.SIZE
V.LIN
V.SKEW
V.SIZE (R)
H.PULSE
SAWTOOTH-2
V.SAWTOOTH-1
V.PAL ABOLA
V.PROT
SYNC
E Board E-14
S601
BA Board BA-6
GA Board GA-9
EB Board EB-3
EB Board EB-4
BA Board BA-3
L5504 DYv (B)
L5503 DYv (G)
L5502 DYv (R)
245V
120V
18V
115mA
47mA

4

5

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

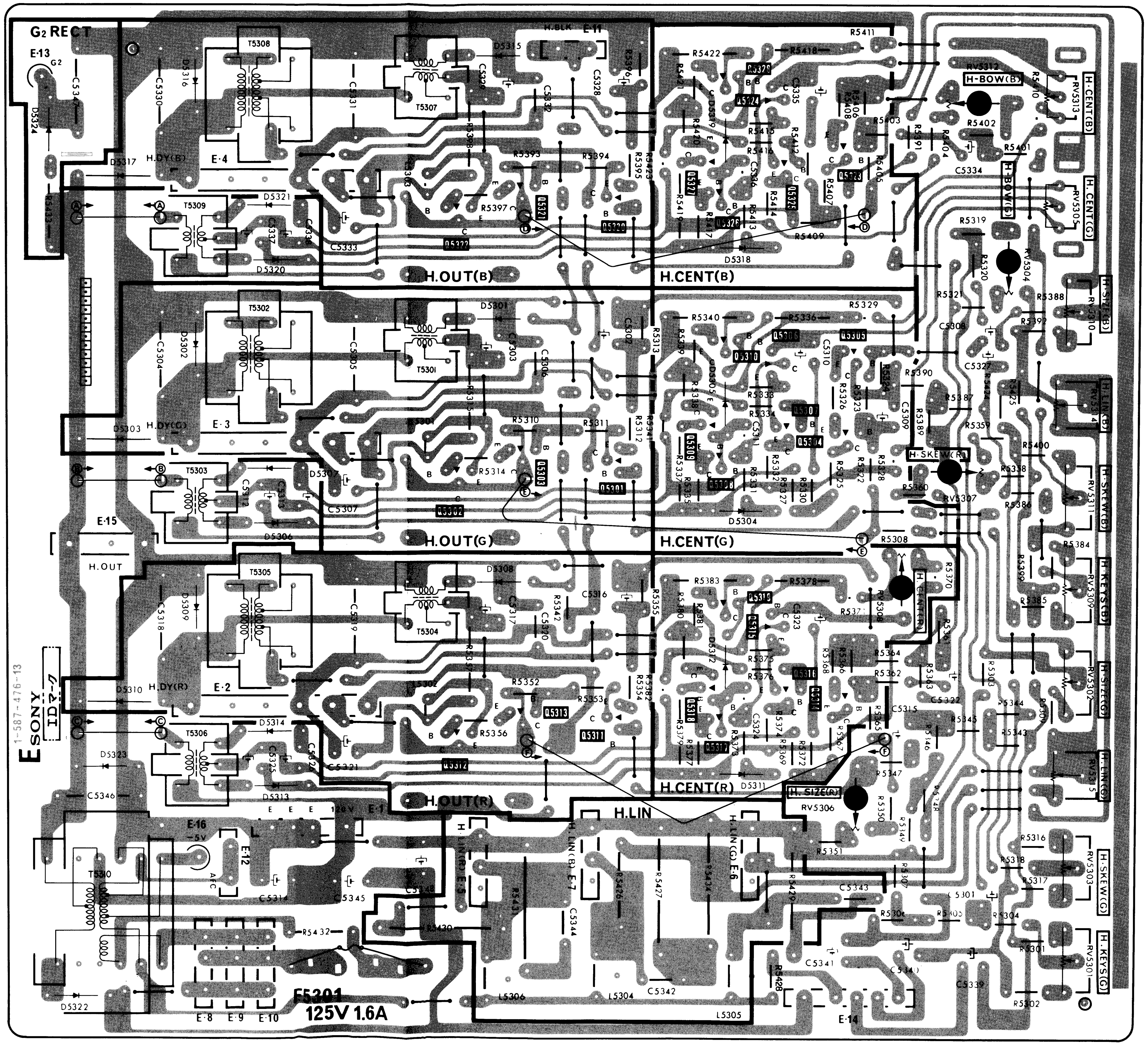
H. CENT, H. OUT
PIN AMP, PIN OUT **E** **E**

A B C D E F G

1 2 3 4 5

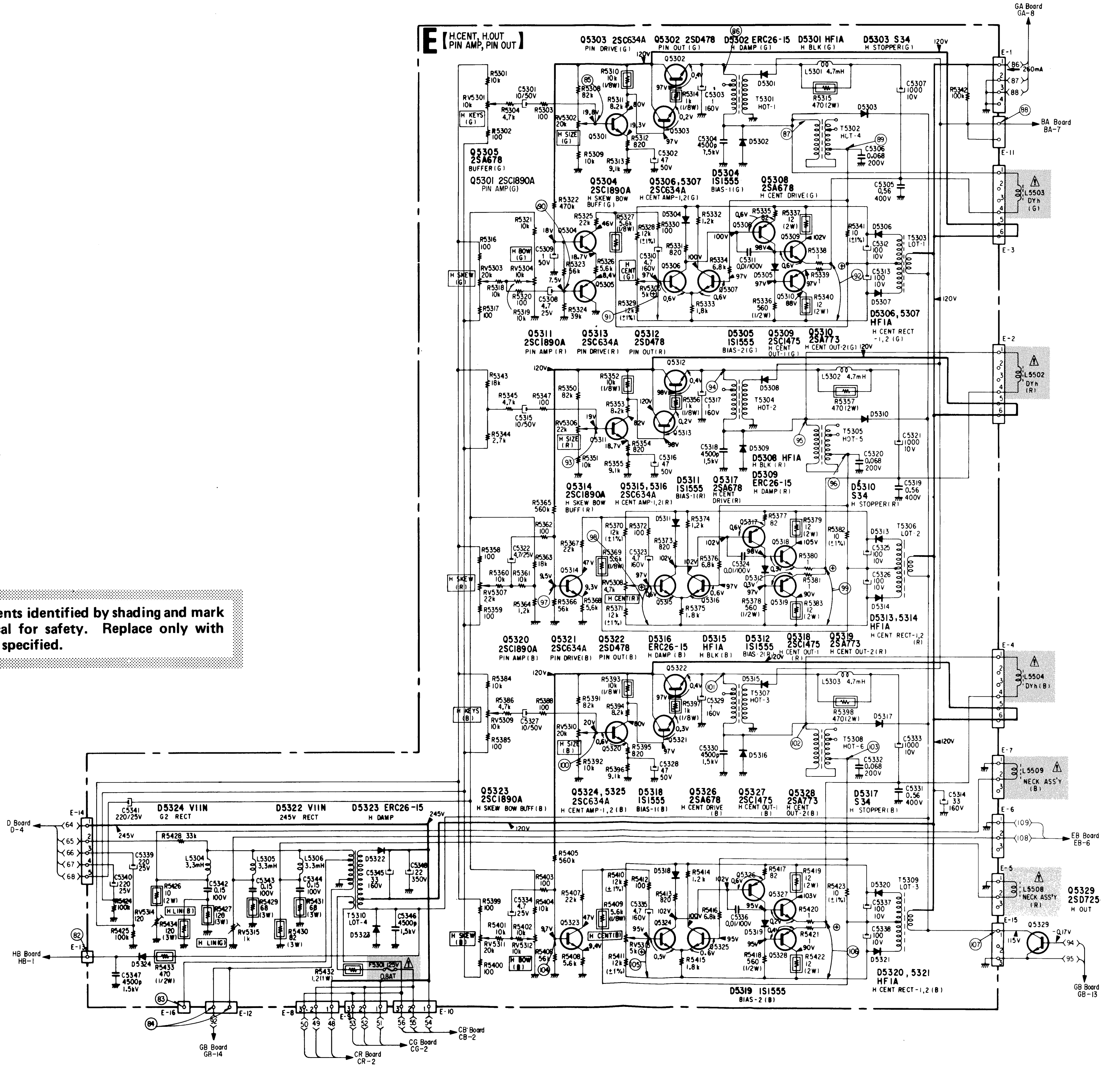
MOUNTING DIAGRAM
– E Board –

IC , Q	D	ADJ
	5315	
5328	5316	RV5313
5324		RV5312
	5324	
	5319	
5323		
5327		
5325	5317	
5321		
5320,5326		
5322	5321	RV5305
	5318	
	5320	RV5304
		RV5310
	5301	
5310	5302	
5305		
5306		
	5305	RV5314
5307		
5309,5304		
	5303	
5303		
5301,5308		
5302	5307	RV5307
		RV5311
	5304	
	5306	
	5308	RV5308
		RV5309
5319	5309	
5315		
	5312	
		RV5302
5318,5316		
5314	5310	
5313,5311		
5317	5314	
5312		
	5323	
	5311	RV5315
	5313	
		RV5306
		RV5303
		RV5301
	5322	
IC , Q	D	ADJ


G2 RECT
E-13
G2
H.BLK E-11
H.DY(B)
E-4
T5308
T5307
T5309
H.OUT(B)
H.CENT(B)
H-BOW(B)
H-CENT(B)
H-BOW(G)
H-CENT(G)
H-SIZE(B)
H-LIN(B)
H-SKEW(R)
H-SKEW(B)
H-KEYS(B)
H-SIZE(G)
H-LIN(G)
H-SKEW(G)
H-KEYS(G)
H-CENT(R)
H.SIZE(R)
H.DY(G)
E-3
T5302
T5301
T5303
H.OUT(G)
H.CENT(G)
E-15
H.OUT
H.DY(R)
E-2
T5305
T5304
T5306
H.OUT(R)
H.CENT(R)
H.LIN
H.LIN(B) E-7
H.LIN(R) E-9
H.LIN(G) E-6
E-1
E-16
-5V
AFC
E-12
T5310
E-8
E-9
E-10
F5301
125V 1.6A
L5306
L5304
L5305
E-14
SONY
ID-7
E
1-587-476-13

E **E** [H. CENT, H. OUT PIN AMP, PIN OUT]

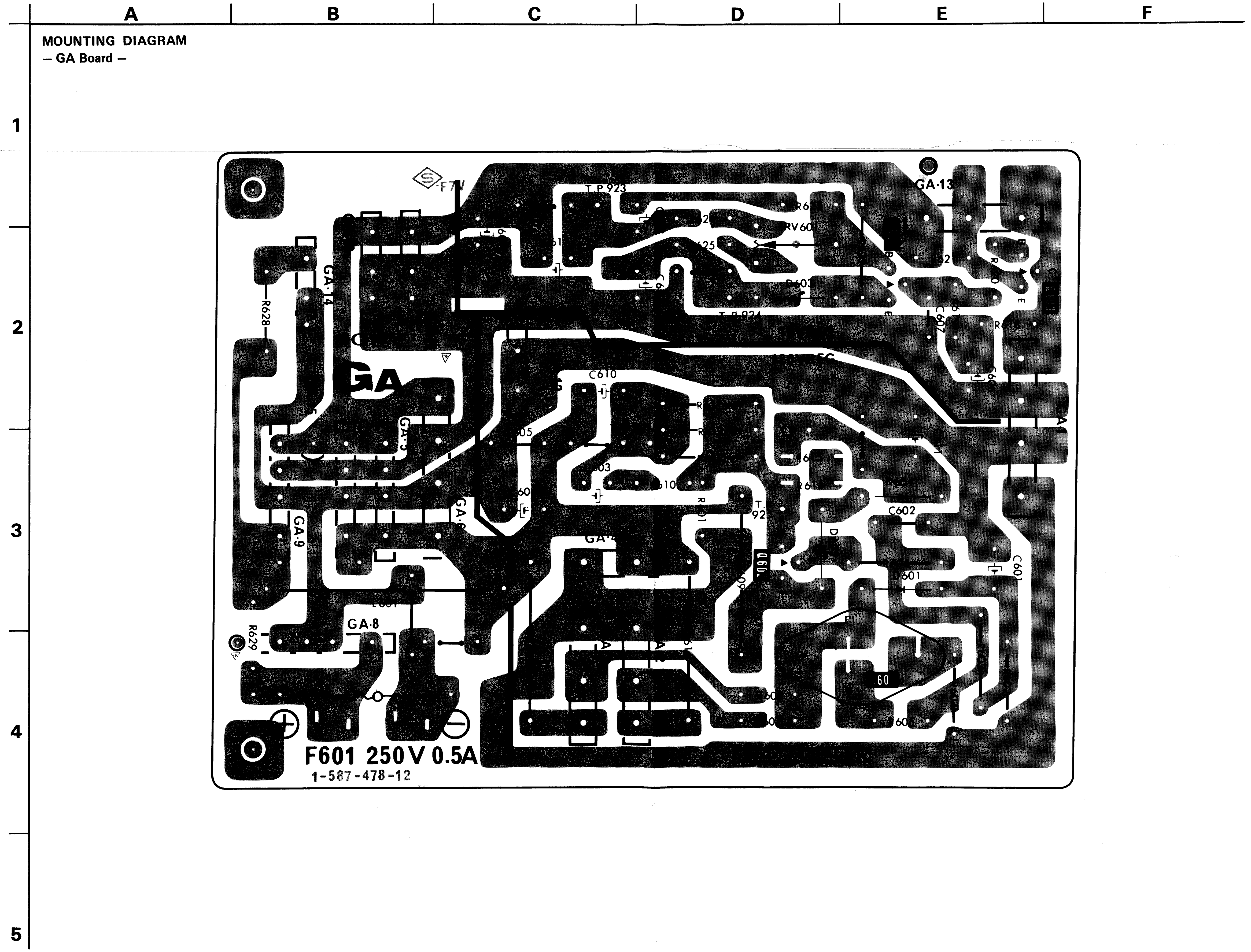
SCHEMATIC DIAGRAM
– E Board –


A
B
C
D
E
F
G
1
2
3
4
5
E [H.CENT, H.OUT PIN AMP, PIN OUT]
Q5303 2SC634A PIN DRIVE (G)
Q5302 2SD478 PIN OUT (G)
D5302 ERC26-15 H DAMP (G)
D5301 HF1A H BLK (G)
D5303 S34 H STOPPER (G)
Q5305 2SA678 BUFFER (G)
Q5301 2SC1890A PIN AMP (G)
Q5304 2SC1890A H SKEW BOW BUFF (G)
Q5306,5307 2SC634A H CENT AMP-1,2 (G)
D5304 1S1555 BIAS-1 (G)
Q5308 2SA678 H CENT DRIVE (G)
D5306,5307 HF1A H CENT RECT -1,2 (G)
Q5311 2SC1890A PIN AMP (R)
Q5313 2SC634A PIN DRIVE (R)
Q5312 2SD478 PIN OUT (R)
D5305 1S1555 BIAS-2 (G)
Q5309 2SC1475 H CENT OUT-1 (G)
Q5310 2SA773 H CENT OUT-2 (G)
D5308 HF1A H BLK (R)
D5309 ERC26-15 H DAMP (R)
D5310 S34 H STOPPER (R)
Q5314 2SC1890A H SKEW BOW BUFF (R)
Q5315,5316 2SC634A H CENT AMP-1,2 (R)
D5311 1S1555 BIAS-1 (R)
Q5317 2SA678 H CENT DRIVE (R)
D5313,5314 HF1A H CENT RECT-1,2 (R)
Q5320 2SC1890A PIN AMP (B)
Q5321 2SC634A PIN DRIVE (B)
Q5322 2SD478 PIN OUT (B)
D5316 ERC26-15 H DAMP (B)
D5315 HF1A H BLK (B)
D5312 1S1555 BIAS-2 (R)
Q5318 2SC1475 H CENT OUT-1 (R)
Q5319 2SA773 H CENT OUT-2 (R)
Q5323 2SC1890A H SKEW BOW BUFF (B)
Q5324,5325 2SC634A H CENT AMP-1,2 (B)
D5318 1S1555 BIAS-1 (B)
Q5326 2SA678 H CENT DRIVE (B)
Q5327 2SC1475 H CENT OUT-1 (B)
Q5328 2SA773 H CENT OUT-2 (B)
D5317 S34 H STOPPER (B)
D5319 1S1555 BIAS-2 (B)
D5320,5321 HF1A H CENT RECT-1,2 (B)
D5324 V11N G2 RECT
D5322 V11N 245V RECT
D5323 ERC26-15 H DAMP
Q5329 2SD725 H OUT
T5301 HOT-1
T5302 HCT-4
T5303 LOT-1
T5304 HOT-2
T5305 HOT-5
T5306 LOT-2
T5307 HOT-3
T5308 HOT-6
T5309 LOT-3
T5310 LOT-4
L5503 DYh (G)
L5502 DYh (R)
L5504 DYh (B)
L5509 NECK ASS'Y (B)
L5508 NECK ASS'Y (R)
H KEYS (G)
H SIZE (G)
H BOW (G)
H SKEW (G)
H CENT (G)
H SIZE (R)
H SKEW (R)
H CENT (R)
H KEYS (B)
H SIZE (B)
H SKEW (B)
H BOW (B)
H CENT (B)
H LIN (G)
H LIN (B)
H LIN (R)
GA Board GA-8
BA Board BA-7
EB Board EB-6
GB Board GB-13
D Board D-4
HB Board HB-1
GB Board GB-14
CB Board CB-2
CG Board CG-2
CR Board CR-2
260mA
120V
245V

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

[120V/18V REG] **GA** **GA**

MOUNTING DIAGRAM
— GA Board —

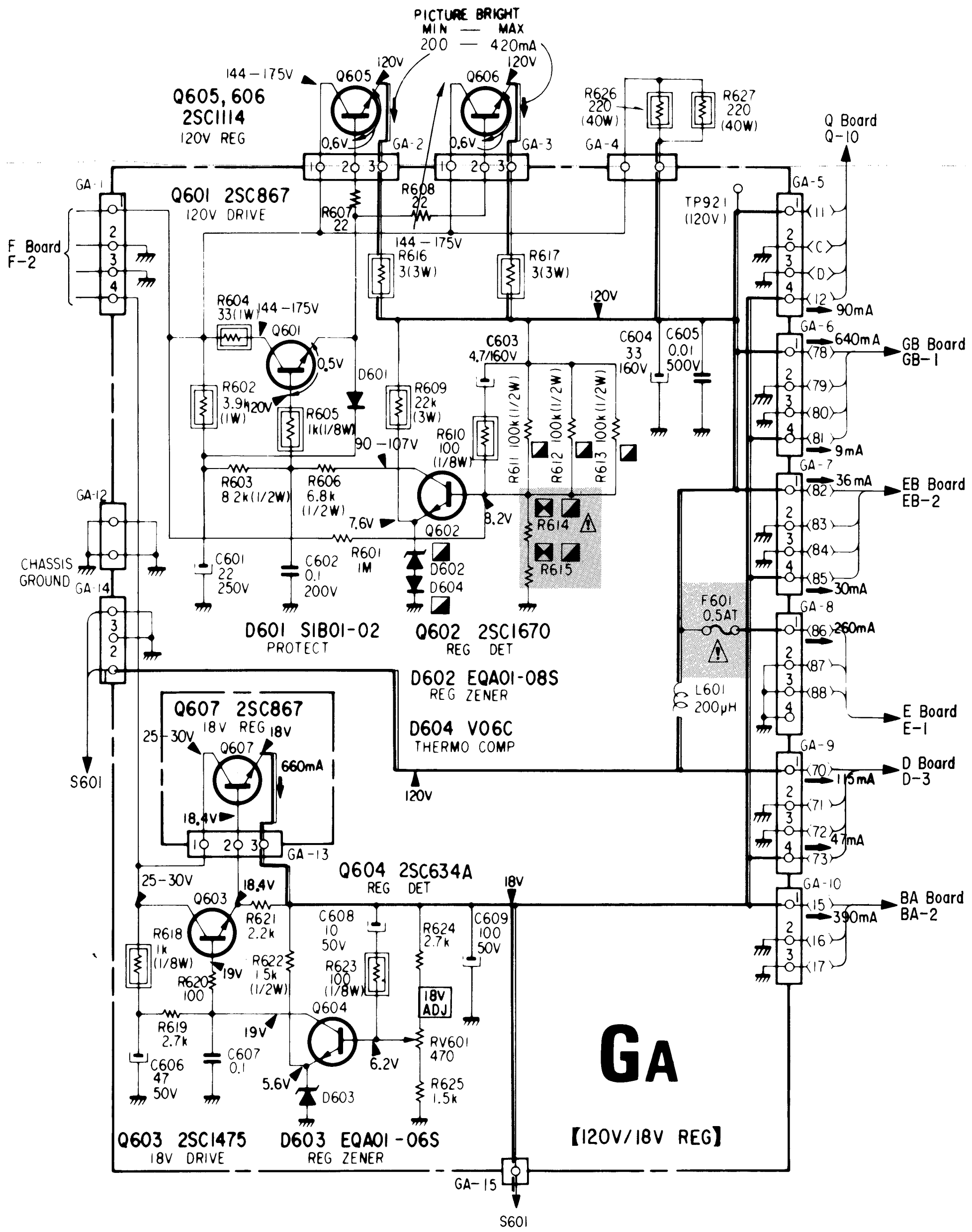

A
B
C
D
E
F
1
2
3
4
5
F7V
TP923
R633
RV601
R625
GA·13
R628
GA·14
D603
TP924
R621
R620
C607
R618
C608
120VREG
GA
C610
GA·5
GA·1
C602
D604
D601
C601
GA·9
GA·6
GA·4
GA·8
R629
60
F601 250V 0.5A
1-587-478-12

GA [120V/18V REG]

Z [AUDIO AMP]

SCHEMATIC DIAGRAM

— GA Board —


PICTURE BRIGHT
MIN — MAX
200 — 420mA
Q605, 606
2SC1114
120V REG
144–175V
Q601 2SC867
120V DRIVE
R626 220 (40W)
R627 220 (40W)
Q Board Q-10
F Board F-2
TP921 (120V)
R604 33(1W)
R602 3.9k (1W)
R605 1k(1/8W)
R603 8.2k(1/2W)
R606 6.8k (1/2W)
R607 22
R608 22
R616 3(3W)
R617 3(3W)
R609 22k (3W)
R610 100 (1/8W)
R611 100k(1/2W)
R612 100k(1/2W)
R613 100k(1/2W)
C603 4.7/160V
C604 33 160V
C605 0.01 500V
R614
R615
Q602
D602
D604
C601 22 250V
C602 0.1 200V
R601 1M
CHASSIS GROUND
D601 S1B01-02 PROTECT
Q602 2SC1670 REG DET
D602 EQA01-08S REG ZENER
D604 V06C THERMO COMP
F601 0.5AT
L601 200μH
GB Board GB-1
EB Board EB-2
E Board E-1
D Board D-3
BA Board BA-2
640mA
90mA
9mA
36mA
30mA
260mA
15mA
47mA
390mA
S601
Q607 2SC867
18V REG
660mA
25–30V
18.4V
Q603
R618 1k (1/8W)
R619 2.7k
R620 100
R621 2.2k
R622 1.5k (1/2W)
C606 47 50V
C607 0.1
C608 10 50V
R623 100 (1/8W)
R624 2.7k
C609 100 50V
18V ADJ
RV601 470
R625 1.5k
Q604 2SC634A REG DET
Q603 2SC1475 18V DRIVE
D603 EQA01-06S REG ZENER
GA-15
GA
[120V/18V REG]

Note:

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
  When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
  (Refer to R614/R615 Adjustment on page 26.)

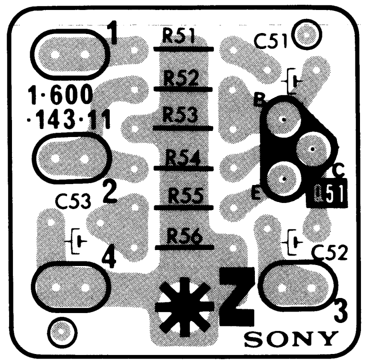
When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

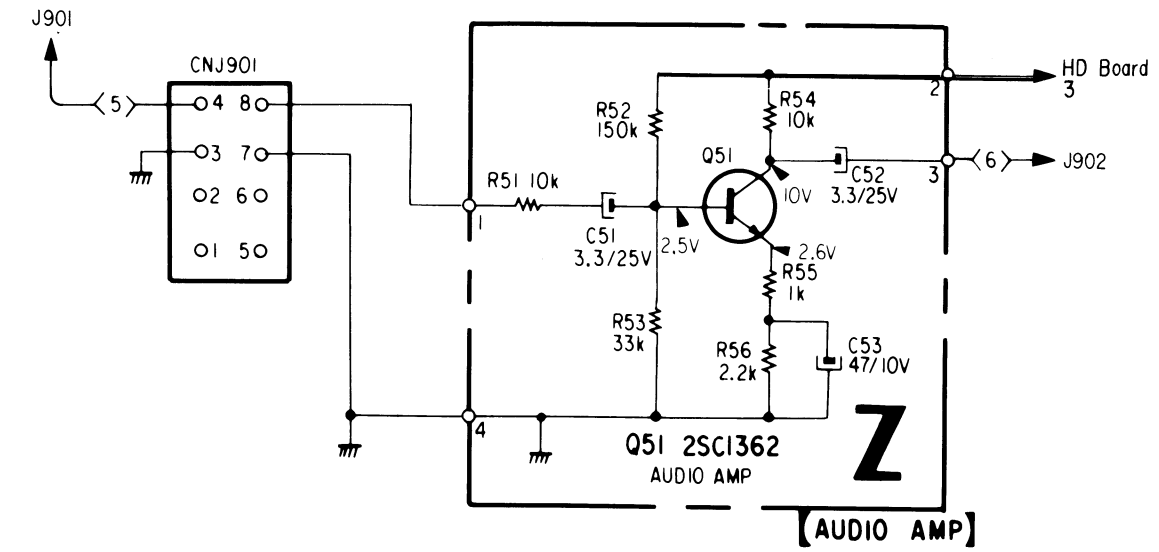
MOUNTING DIAGRAM

— Z Board —


1
2
3
4
1-600-143-11
R51
R52
R53
R54
R55
R56
C51
C52
C53
Q51
B
C
E
Z
SONY

SCHEMATIC DIAGRAM

— Z Board —

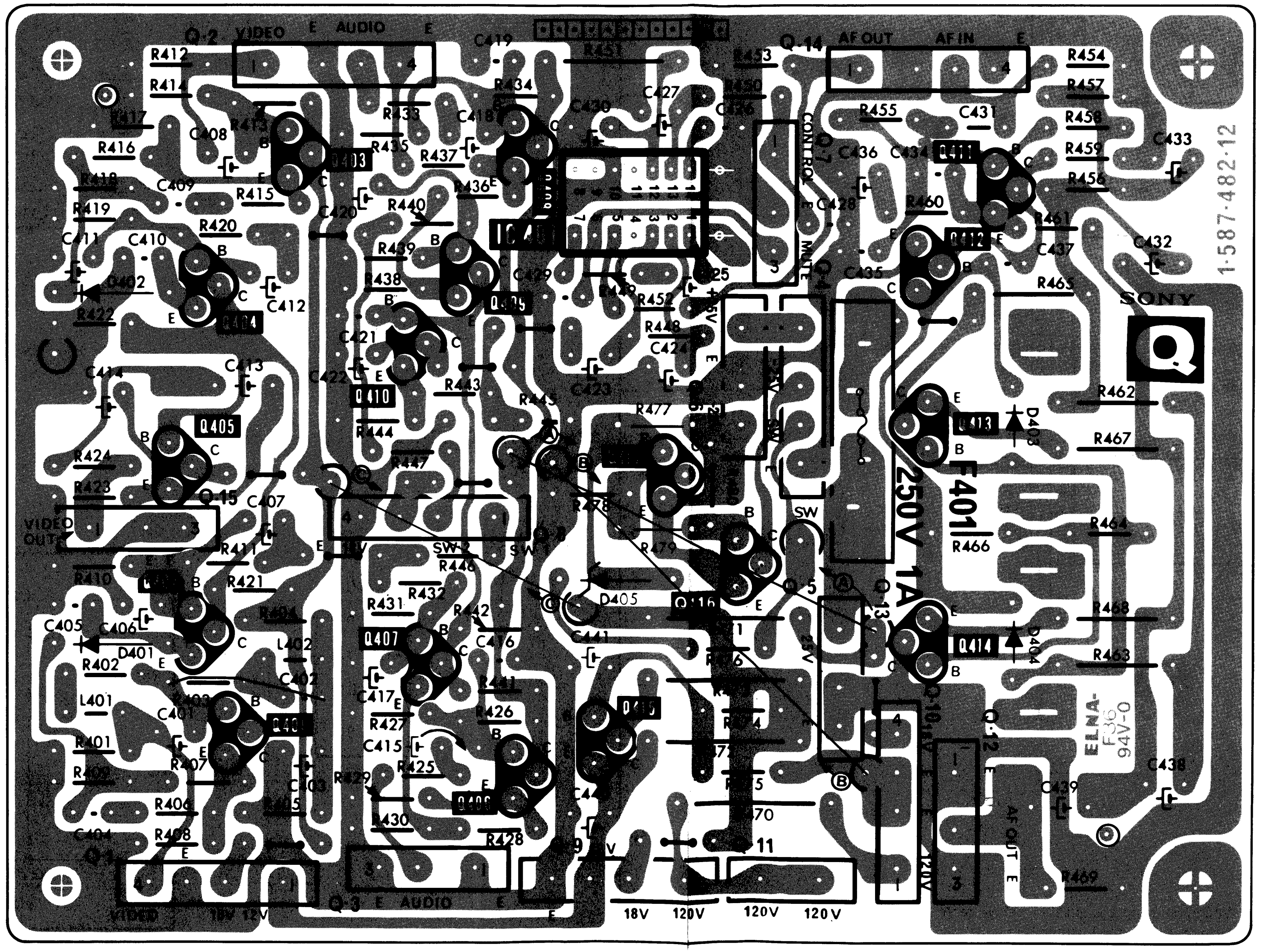

J901
CNJ901
5
HD Board 3
J902
6
R52 150k
R54 10k
Q51
R51 10k
C51 3.3/25V
2.5V
10V
C52 3.3/25V
2.6V
R55 1k
R53 33k
R56 2.2k
C53 47/10V
Q51 2SC1362
AUDIO AMP
Z
[AUDIO AMP]

[VIDEO, AUDIO SW
AUDIO OUT] **Q** **Q**

A B C D E F G

1 2 3 4 5

MOUNTING DIAGRAM
— Q Board —



Q-2 VIDEO E AUDIO E
Q-14 AF OUT AF IN E
Q-1 VIDEO 18V 12V
Q-3 E AUDIO E
VIDEO OUT
CONTROL
MUTE
SW
SW-2
SW-1
F401 250V 1A
Q-10
Q-12 AF OUT E
Q-13
Q-15
Q-5
Q-11
18V 120V 120V 120V
IC401
Q401
Q402
Q403
Q404
Q405
Q406
Q407
Q408
Q409
Q410
Q411
Q412
Q413
Q414
D401
D402
D403
D404
D405
L401
L402
C403
C404
C405
C406
C407
C408
C409
C410
C411
C412
C413
C414
C415
C417
C418
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C420
C421
C422
C423
C424
C425
C426
C427
C428
C429
C431
C432
C433
C434
C435
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C437
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C441
R401
R402
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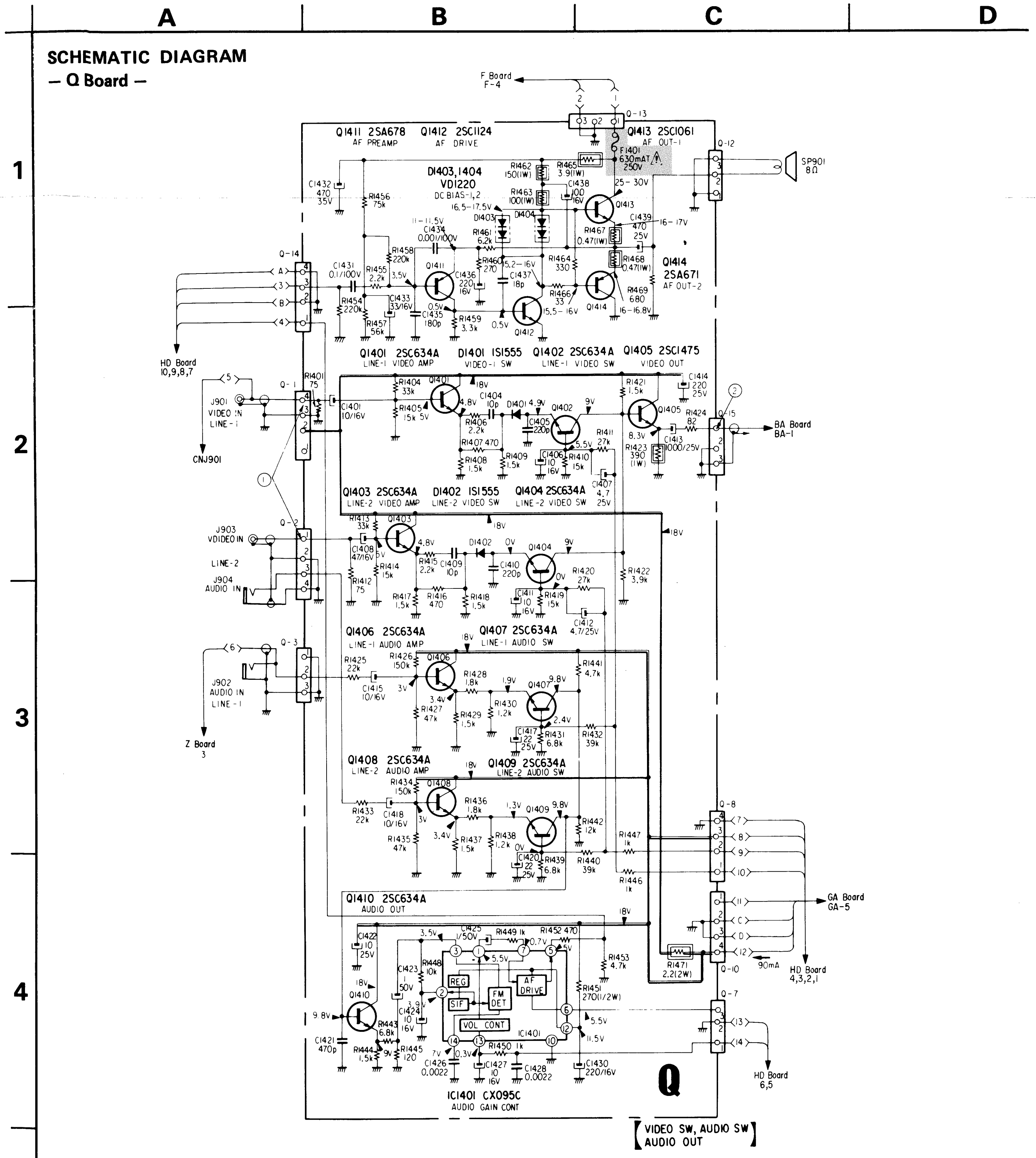
R458
R459
R460
R461
R462
R463
R464
R465
R466
R467
R468
R469
R470
R471
R472
R473
R474
R475
R476
R477
R478
R479
SONY
Q
1-587-482-12
ELNA- F36 94V-0
Ⓐ
Ⓑ

IC , Q	D
408	
403	
411	
IC401	
412	
409	
404	402
410	
413	403
405	
402	401
414	404
407	
401	
406	
IC , Q	D

SCHEMATIC DIAGRAM
— Q Board —


A
B
C
D
1
2
3
4
5
F Board F-4
Q1411 2SA678 AF PREAMP
Q1412 2SC1124 AF DRIVE
Q1413 2SC1061 AF OUT-1
Q1414 2SA671 AF OUT-2
D1403,1404 VD1220 DC BIAS-1,2
F1401 630mAT ⚠ 250V
SP901 8Ω
Q1401 2SC634A LINE-1 VIDEO AMP
D1401 1S1555 VIDEO-1 SW
Q1402 2SC634A LINE-1 VIDEO SW
Q1405 2SC1475 VIDEO OUT
HD Board 10,9,8,7
J901 VIDEO IN LINE-1
CNJ901
BA Board BA-1
Q1403 2SC634A LINE-2 VIDEO AMP
D1402 1S1555 LINE-2 VIDEO SW
Q1404 2SC634A LINE-2 VIDEO SW
J903 VIDEO IN LINE-2
J904 AUDIO IN
Q1406 2SC634A LINE-1 AUDIO AMP
Q1407 2SC634A LINE-1 AUDIO SW
J902 AUDIO IN LINE-1
Z Board 3
Q1408 2SC634A LINE-2 AUDIO AMP
Q1409 2SC634A LINE-2 AUDIO SW
Q1410 2SC634A AUDIO OUT
GA Board GA-5
HD Board 4,3,2,1
R1471 2.2(2W)
90mA
HD Board 6,5
REG
SIF
FM DET
AF DRIVE
VOL CONT
IC1401
IC1401 CX095C AUDIO GAIN CONT
Q
VIDEO SW, AUDIO SW AUDIO OUT

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

NOTES ON SCHEMATIC DIAGRAMS

Note:
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. k : 1000Ω, M : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

  When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved.

  (Refer to R6211/R6212 Adjustment, (On Page 28) R6207/R6208 (On Page 28) Adjustment and R614/R615 Adjustment.) (On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set.

  Read the reference numbers of the Q board by adding 1000 to those indicated.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

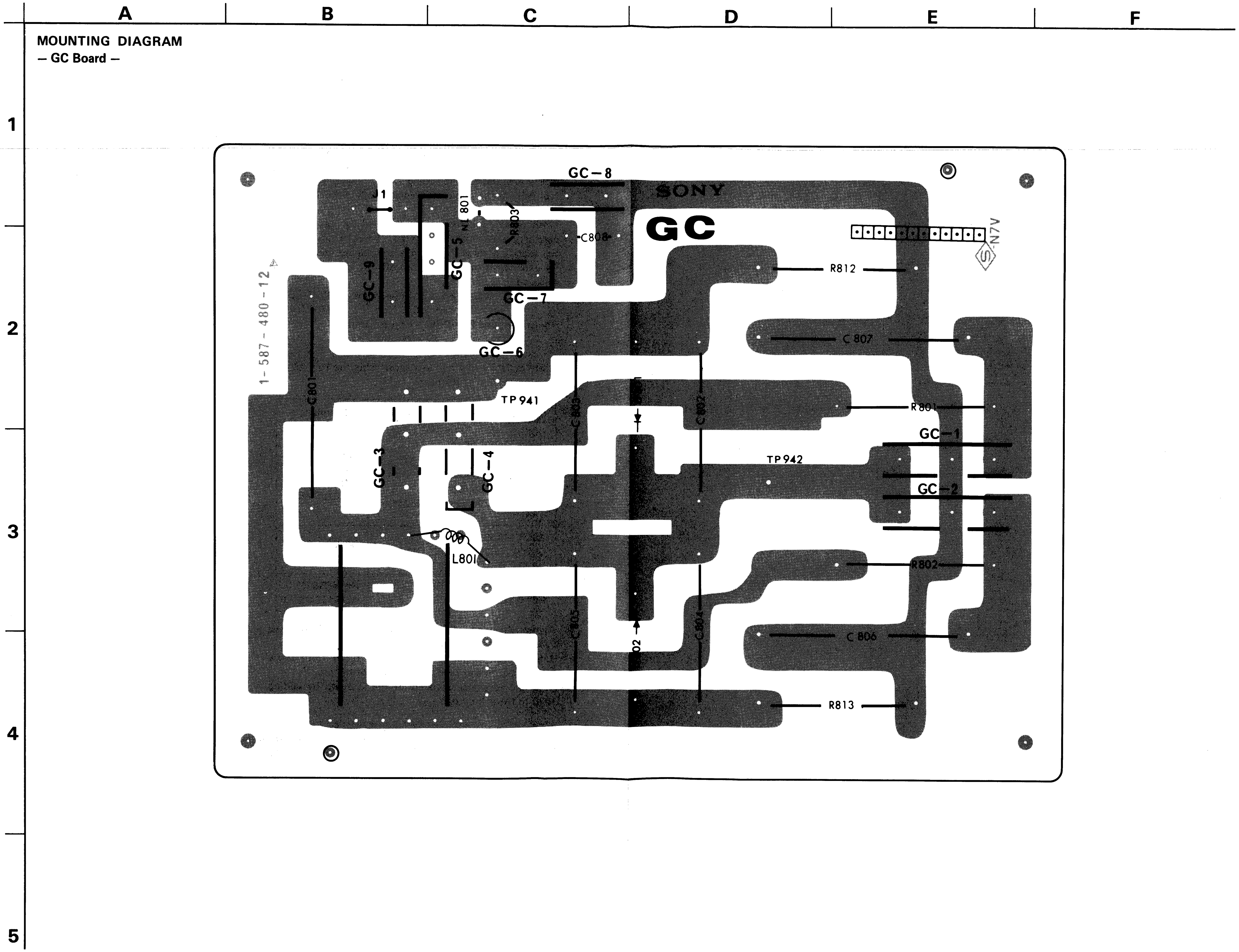
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ⊘ : adjustable without removing cabinet.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar video signal input.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+ bus.
- ◆ : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in Q board are taken with the LINE switch set to 1.
- Voltages in BB board are taken with PAL color-bar video signal input.

  ( ) : SECAM

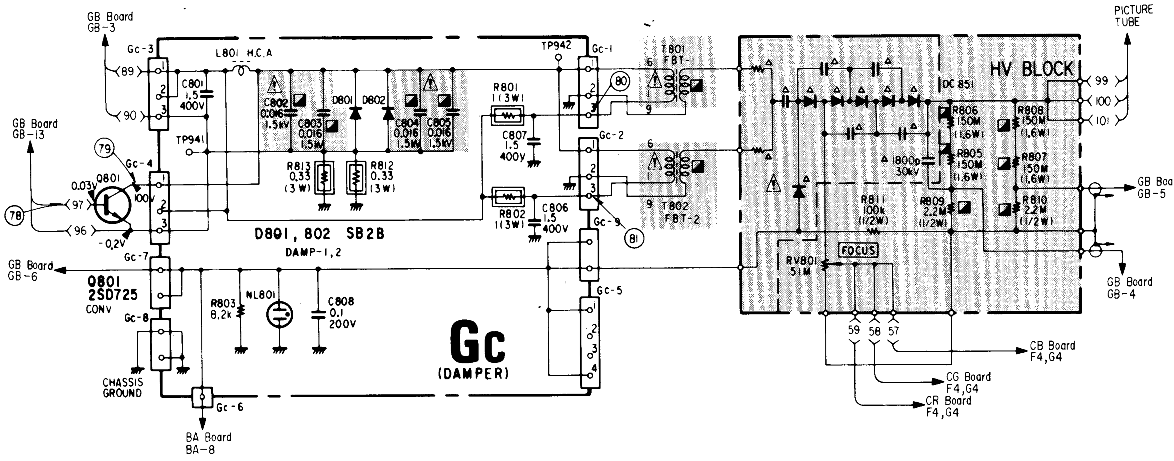
  < > : NTSC 4.43MHz

[DAMPER] **GC** **GC**

MOUNTING DIAGRAM
– GC Board –


A
B
C
D
E
F
1
2
3
4
5
GC–8
SONY
GC
J1
NL801
R803
C808
GC–5
GC–9
GC–7
GC–6
1-587-480-12
C801
TP941
C803
C802
R812
N7V
C807
R801
GC–1
TP942
GC–2
GC–3
GC–4
L801
R802
C805
D802
C804
C806
R813

SCHEMATIC DIAGRAM
– GC Board –


GB Board GB-3
Gc-3
89
90
C801 1.5 400V
L801 H.C.A
C802 0.016 1.5kV
C803 0.016 1.5kV
D801
D802
C804 0.016 1.5kV
C805 0.016 1.5kV
R813 0.33 (3W)
R812 0.33 (3W)
TP941
TP942
R801 1(3W)
C807 1.5 400V
R802 1(3W)
C806 1.5 400V
Gc-1
Gc-2
Gc-9
Gc-5
80
81
T801 FBT-1
T802 FBT-2
6
9
GB Board GB-13
79
78
Gc-4
Q801
0.03V
100V
-0.2V
97
96
Gc-7
GB Board GB-6
Q801 2SD725 CONV
Gc-8
CHASSIS GROUND
D801, 802 SB2B
DAMP-1,2
R803 8.2k
NL801
C808 0.1 200V
Gc (DAMPER)
Gc-6
BA Board BA-8
HV BLOCK
DC 851
R806 150M (1.6W)
R805 150M (1.6W)
R808 150M (1.6W)
R807 150M (1.6W)
1800p 30kV
R811 100k (1/2W)
R809 2.2M (1/2W)
R810 2.2M (1/2W)
RV801 51M
FOCUS
PICTURE TUBE
99
100
101
GB Board GB-5
GB Board GB-4
59
58
57
CB Board F4,G4
CG Board F4,G4
CR Board F4,G4

Note:

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
  When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved.
  (Refer to R6211/R6212 Adjustment and R6207/R6208 Adjustment on page 28.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
T801, T802, HV BLOCK C802, C803, C804, C805 R807, R808, R809, R810	R6211/R6212 R6207/R6208 ADJUSTMENT

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

EB

A B C D

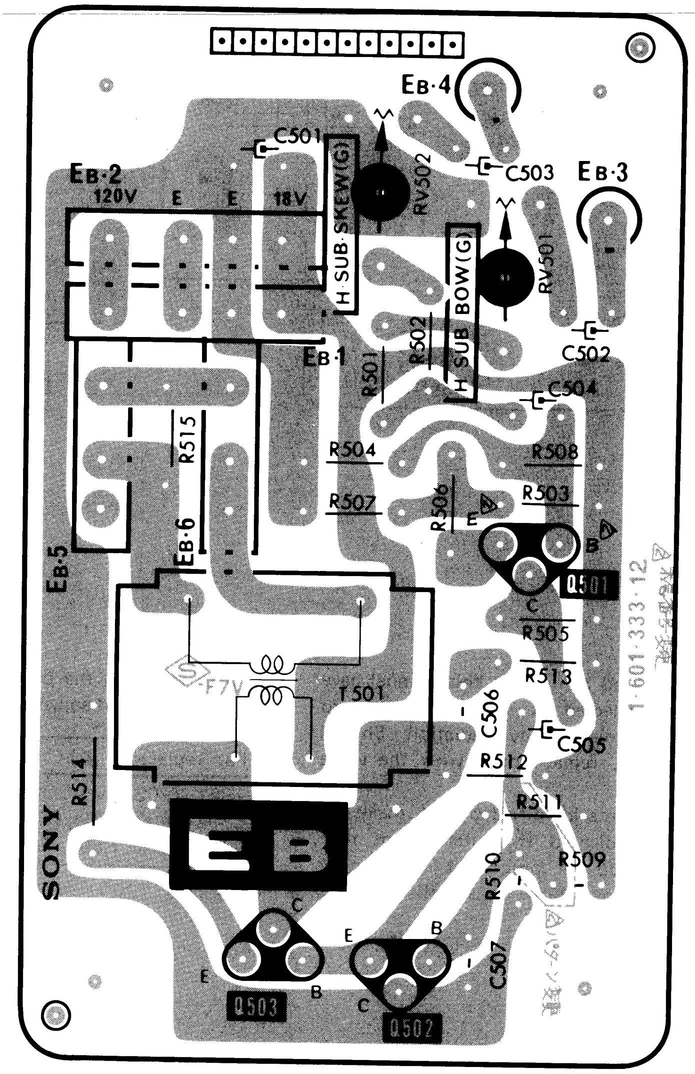
1

MOUNTING DIAGRAM
– EB Board –

KP-5010PS : Serial No. up to 11,100
KP-7210PS : Serial No. up to 11,300

2

3


EB·4
C501
RV502
C503
EB·3
EB·2
120V
E
E
18V
H·SUB·SKEW(G)
H·SUB·BOW(G)
RV501
EB·1
R502
R501
C502
C504
R515
R504
R508
R507
R503
R506
E
B
Q501
C
EB·5
EB·6
R505
R513
S
F7V
T501
C506
C505
R512
R514
R511
SONY
EB
R509
R510
C
E
B
E
B
C
C507
Q503
Q502
1-601-333-12

4

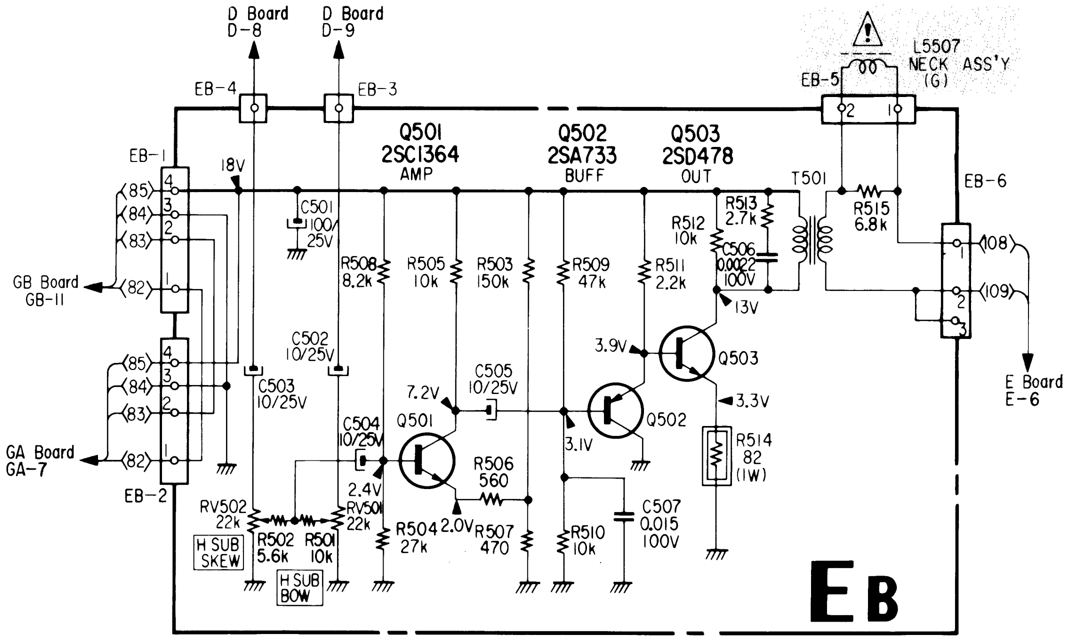
5

[REGISTRATION COMPENSATOR] **EB**

HC [COUSTOMER CONTROL]

SCHEMATIC DIAGRAM
– EB Board –

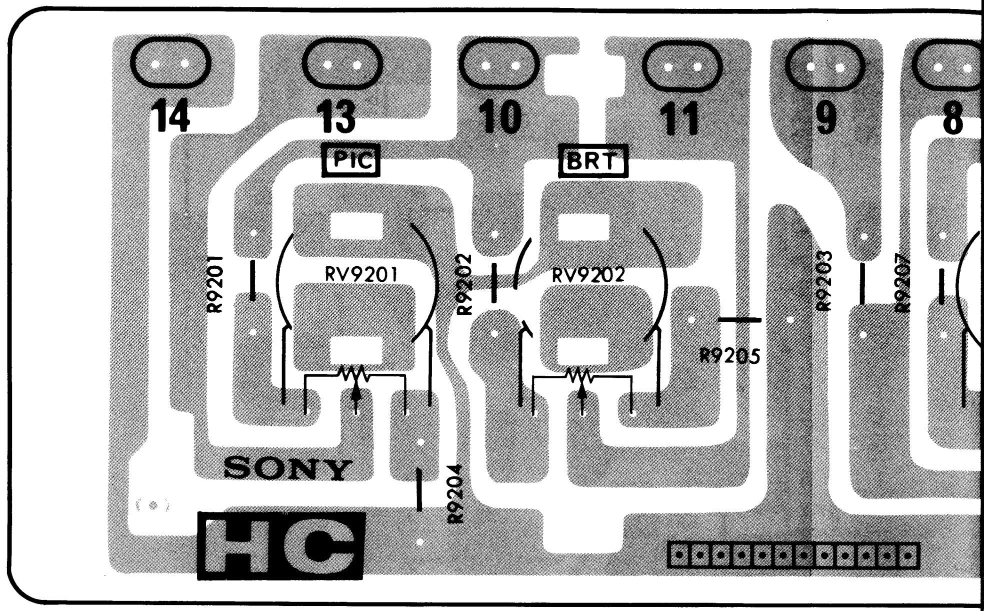
KP-5010PS : Serial No. up to 11,100
KP-7210PS : Serial No. up to 11,300



D Board D-8
D Board D-9
EB-4
EB-3
EB-5
EB-1
EB-2
EB-6
L5507 NECK ASS'Y (G)
Q501 2SC1364 AMP
Q502 2SA733 BUFF
Q503 2SD478 OUT
T501
18V
C501 100/25V
R508 8.2k
R505 10k
R503 150k
R509 47k
R511 2.2k
R512 10k
R513 2.7k
C506 0.0022 100V
R515 6.8k
13V
3.9V
7.2V
3.1V
2.4V
2.0V
3.3V
C502 10/25V
C503 10/25V
C504 10/25V
C505 10/25V
R506 560
R507 470
R504 27k
R510 10k
C507 0.015 100V
R514 82 (1W)
RV502 22k
R502 5.6k
R501 10k
RV501 22k
H SUB SKEW
H SUB BOW
GB Board GB-11
GA Board GA-7
E Board E-6
(85) (84) (83) (82)
(108) (109)
EB

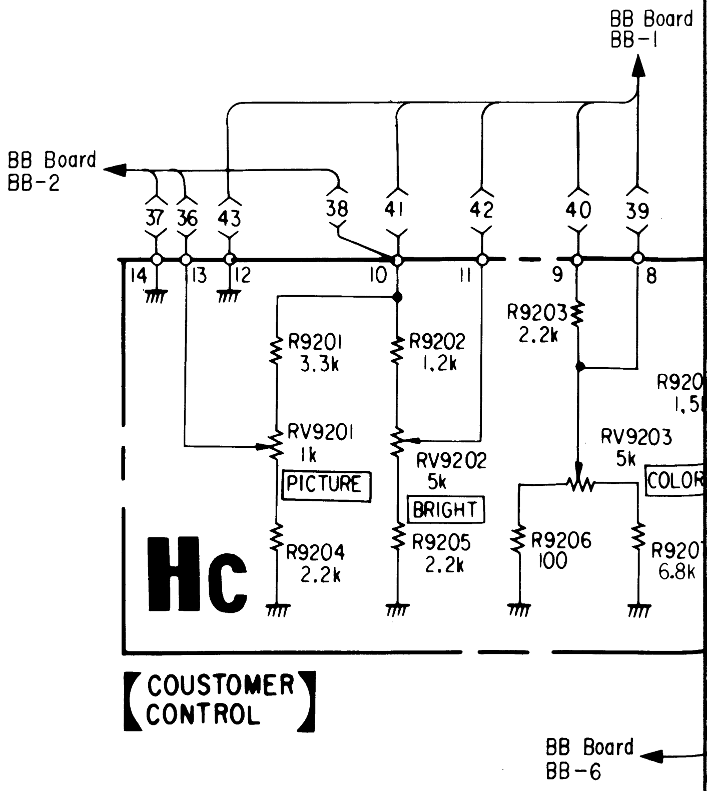
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MOUNTING DIAGRAM
– HC, HA Board –



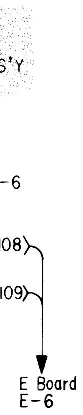
14
13
10
11
9
8
PIC
BRT
RV9201
RV9202
R9201
R9202
R9203
R9204
R9205
R9207
SONY
HC

SCHEMATIC DIAGRAM
– HC, HA Board –



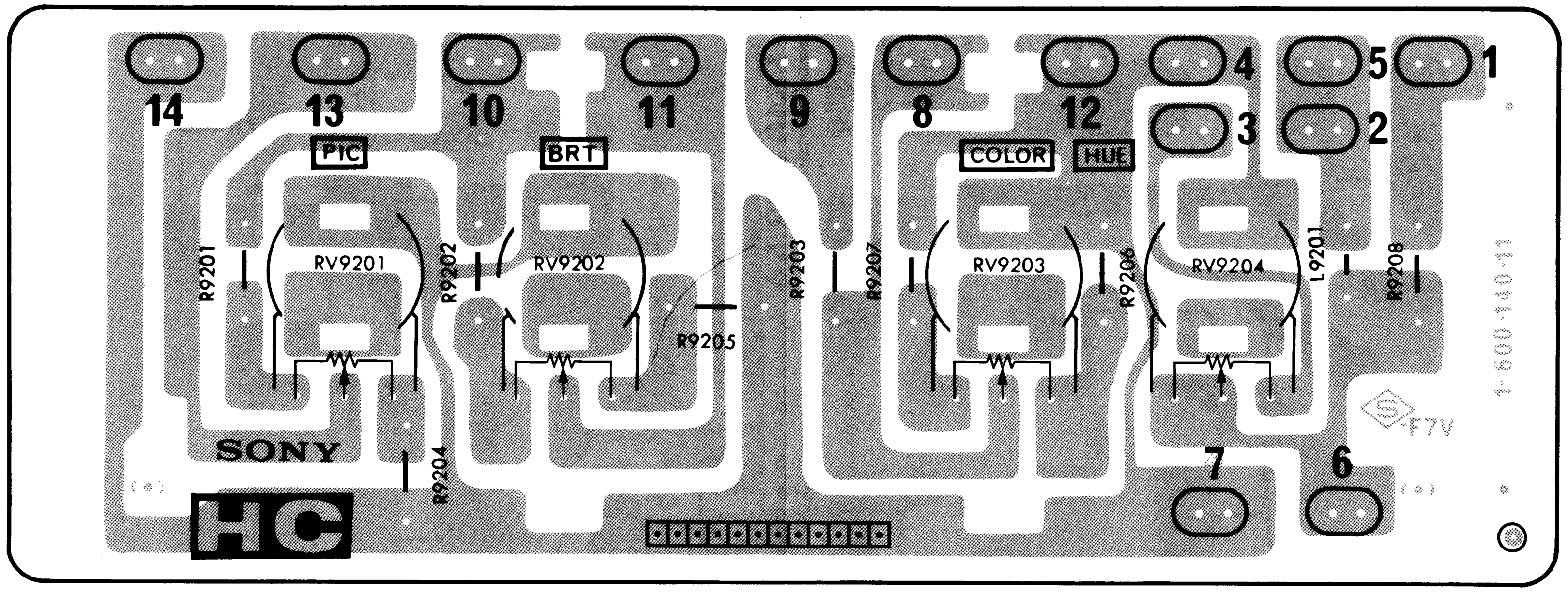
BB Board BB-1
BB Board BB-2
BB Board BB-6
37 36 43 38 41 42 40 39
14 13 12 10 11 9 8
R9201 3.3k
R9202 1.2k
R9203 2.2k
RV9201 1k
PICTURE
RV9202 5k
BRIGHT
RV9203 5k
COLOR
R9204 2.2k
R9205 2.2k
R9206 100
Hc
COUSTOMER CONTROL

D A B C D E F G


S'Y
-6
08)
09)
E Board
E-6

1

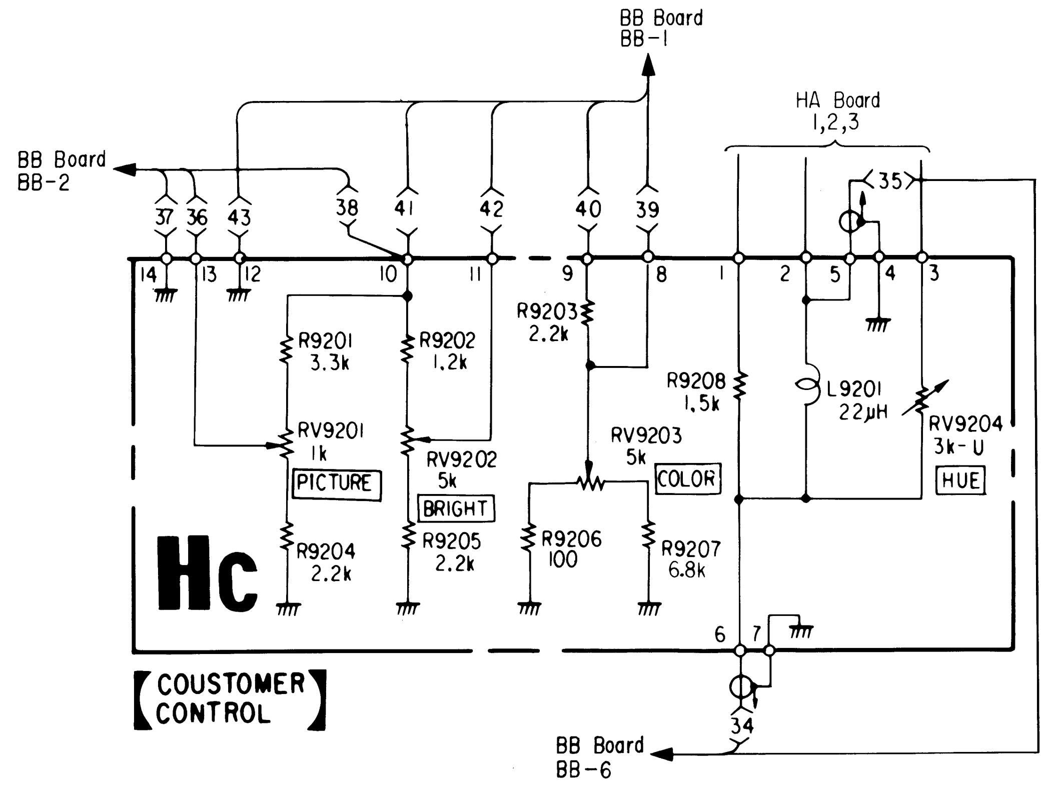
MOUNTING DIAGRAM
– HC, HA Board –


14
13
10
11
9
8
12
4
5
1
3
2
PIC
BRT
COLOR
HUE
R9201
RV9201
R9202
RV9202
R9203
R9205
R9207
RV9203
R9206
RV9204
L9201
R9208
R9204
SONY
HC
7
6
F7V
1-600-140-11

2

SCHEMATIC DIAGRAM
– HC, HA Board –

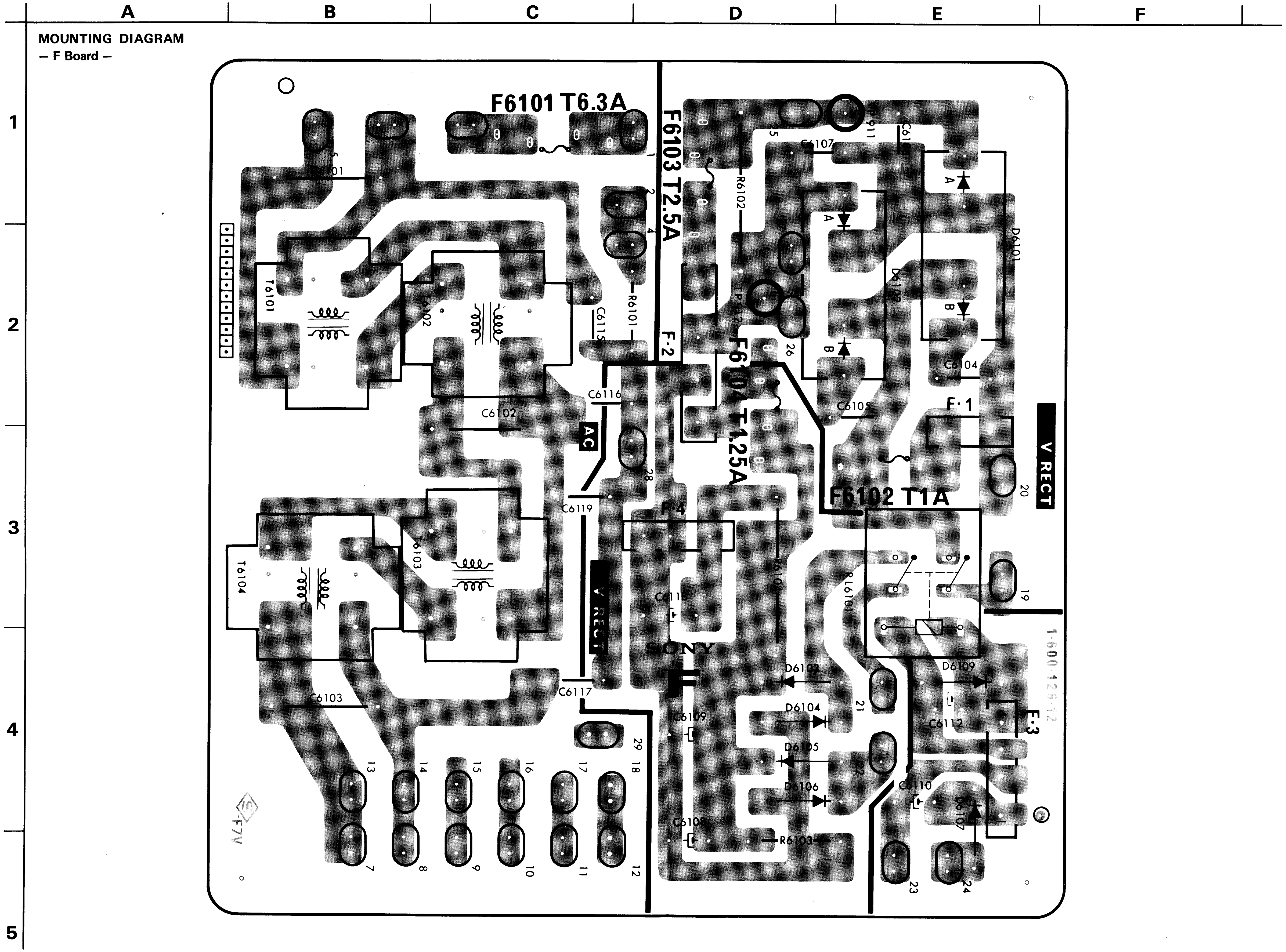
3


BB Board
BB-1
BB Board
BB-2
HA Board
1,2,3
35
37
36
43
38
41
42
40
39
14
13
12
10
11
9
8
1
2
5
4
3
R9201
3.3k
R9202
1.2k
R9203
2.2k
R9208
1.5k
L9201
22μH
RV9201
1k
PICTURE
RV9202
5k
BRIGHT
RV9203
5k
COLOR
RV9204
3k-U
HUE
R9204
2.2k
R9205
2.2k
R9206
100
R9207
6.8k
Hc
6
7
COUSTOMER
CONTROL
34
BB Board
BB-6

4

5

MOUNTING DIAGRAM
— F Board —

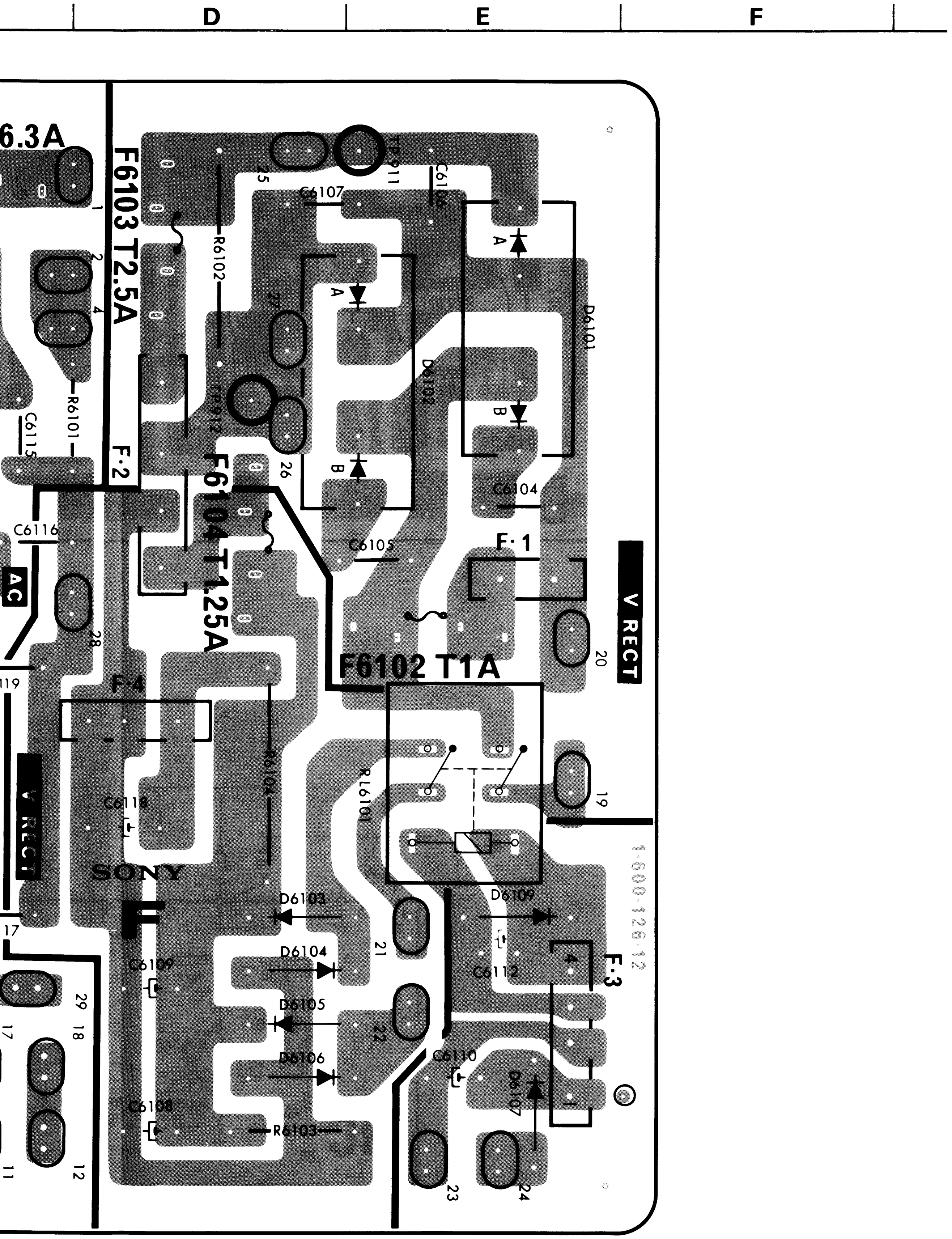

A
B
C
D
E
F
1
2
3
4
5
F6101 T6.3A
F6103 T2.5A
F6104 T1.25A
F6102 T1A
C6101
T6101
T6102
C6115
R6101
C6116
C6102
AC
C6119
T6103
T6104
V RECT
C6118
C6117
C6103
SONY
F
C6109
C6108
D6103
D6104
D6105
D6106
R6103
R6104
RL6101
D6109
C6112
F·3
C6110
D6107
F·4
F·2
F·1
C6104
C6105
C6106
C6107
D6101
D6102
A
B
TP911
TP912
R6102
V RECT
1-600-126-12
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
F7V

SCHEMA
— F Boar

1
2
3
4
5

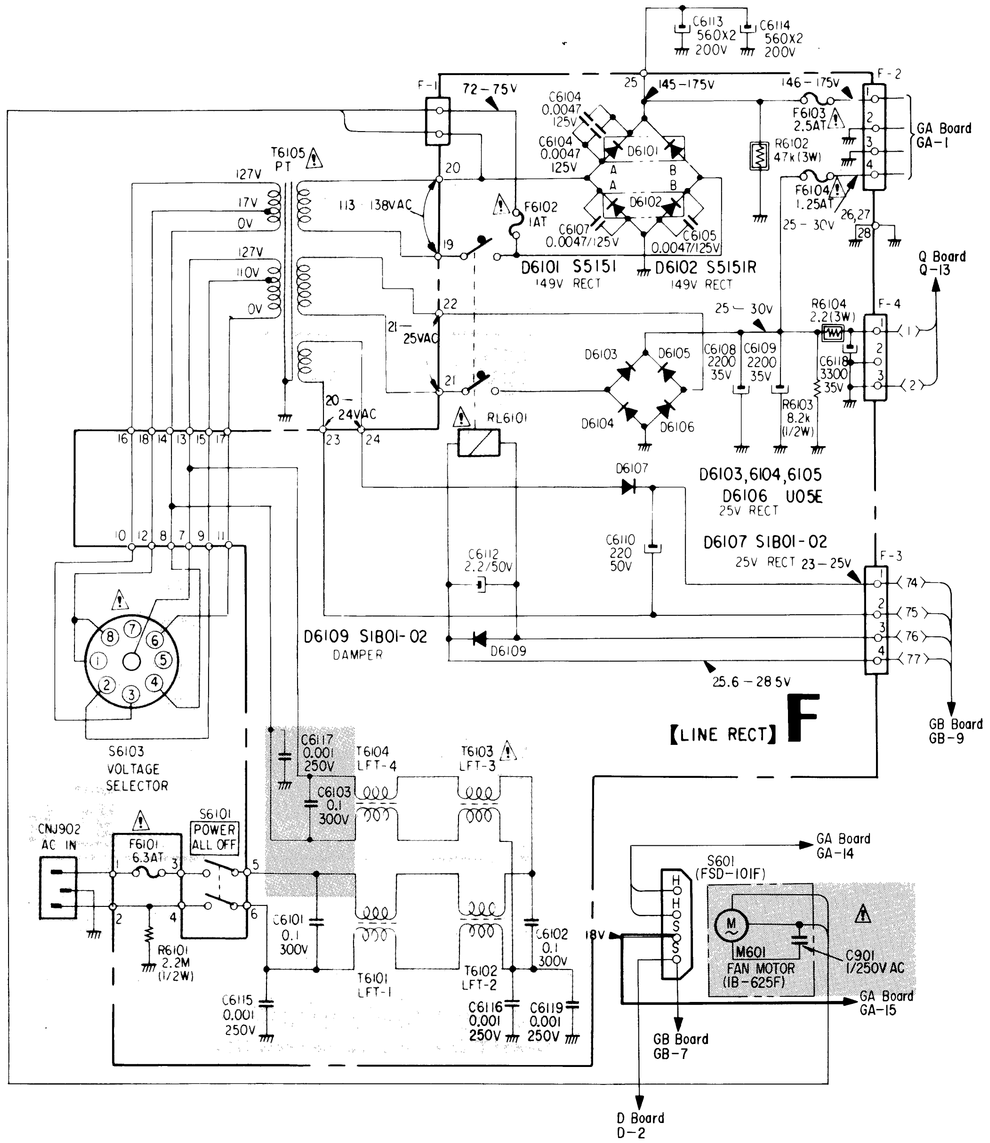
F

F [LINE RECT]


D
E
F
6.3A
F6103 T2.5A
F6104 T1.25A
F6102 T1A
C6107
C6106
TP911
TP912
R6102
R6101
C6115
C6116
F-2
F-1
F-4
F-3
D6101
D6102
C6104
C6105
V RECT
AC
V RECT
RL6101
C6118
R6104
SONY
F
D6103
D6104
D6105
D6106
D6109
D6107
C6109
C6108
C6112
C6110
R6103
1-600-126-12
A
B
1
2
4
11
12
17
18
19
20
21
22
23
24
25
26
27
28
29
119

A
B
C
D
1
2
3
4
5

SCHEMATIC DIAGRAM
— F Board —


C6113 560X2 200V
C6114 560X2 200V
F-1
72-75V
25
145-175V
146-175V
F-2
C6104 0.0047 125V
C6104 0.0047 125V
D6101
D6102
A
B
F6103 2.5AT
R6102 47k(3W)
GA Board GA-1
T6105 PT
127V
17V
0V
127V
110V
0V
113 138VAC
F6102 1AT
C6107 0.0047/125V
C6105 0.0047/125V
20
19
D6101 S5151 149V RECT
D6102 S5151R 149V RECT
F6104 1.25AT
25-30V
26,27
28
Q Board Q-13
22
21-25VAC
21
25-30V
R6104 2.2(3W)
F-4
D6103
D6105
D6104
D6106
C6108 2200 35V
C6109 2200 35V
C6118 3300 35V
R6103 8.2k (1/2W)
20-24VAC
RL6101
16 18 14 13 15 17 23 24
D6107
D6103,6104,6105
D6106 U05E
25V RECT
10 12 8 7 9 11
C6112 2.2/50V
C6110 220 50V
D6107 S1B01-02
25V RECT 23-25V
F-3
74
75
76
77
D6109 S1B01-02 DAMPER
D6109
25.6-28.5V
GB Board GB-9
S6103 VOLTAGE SELECTOR
C6117 0.001 250V
C6103 0.1 300V
T6104 LFT-4
T6103 LFT-3
CNJ902 AC IN
F6101 6.3AT
S6101 POWER ALL OFF
1 2 3 4 5 6
R6101 2.2M (1/2W)
C6101 0.1 300V
T6101 LFT-1
T6102 LFT-2
C6102 0.1 300V
C6115 0.001 250V
C6116 0.001 250V
C6119 0.001 250V
18V
S601 (FSD-101F)
H H S S
GA Board GA-14
M601 FAN MOTOR (1B-625F)
C901 1/250V AC
GA Board GA-15
GB Board GB-7
D Board D-2

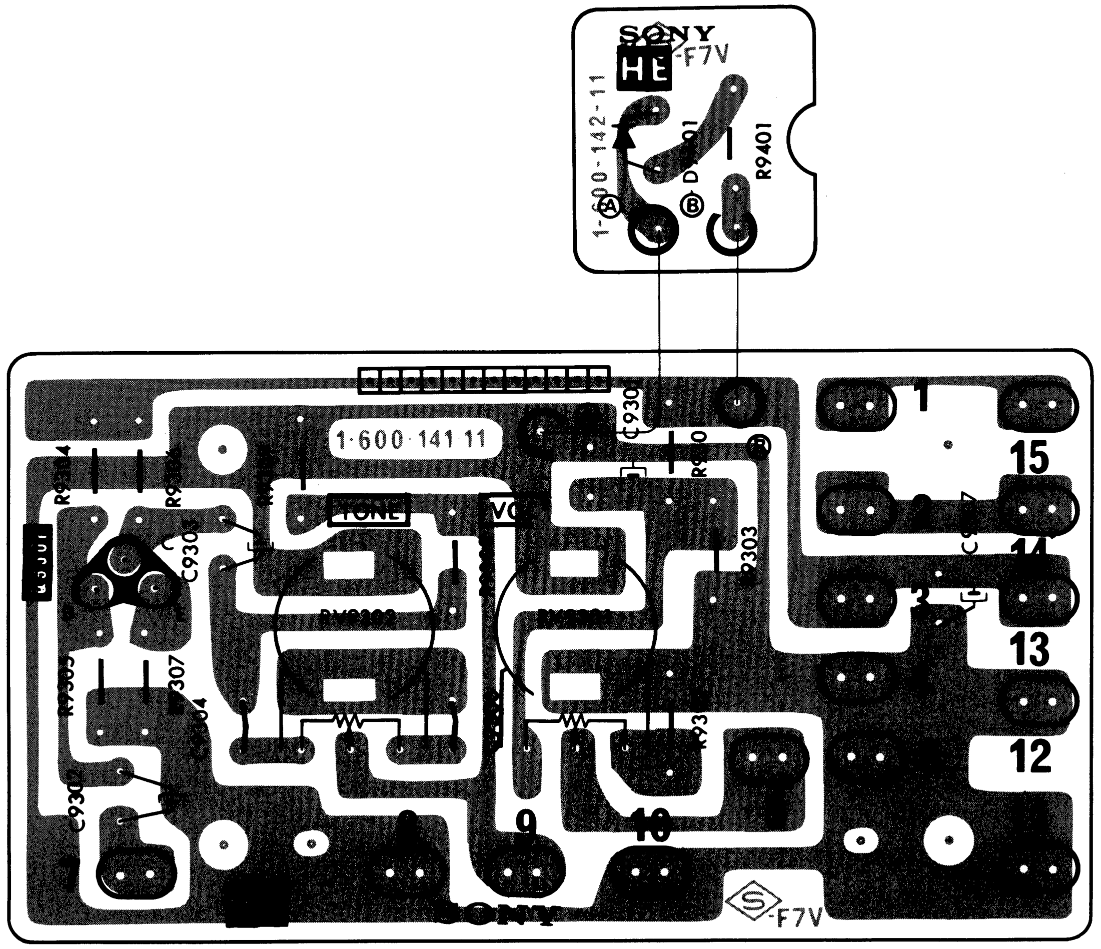
【LINE RECT】 **F**

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A B C D

1
2
3
4
5

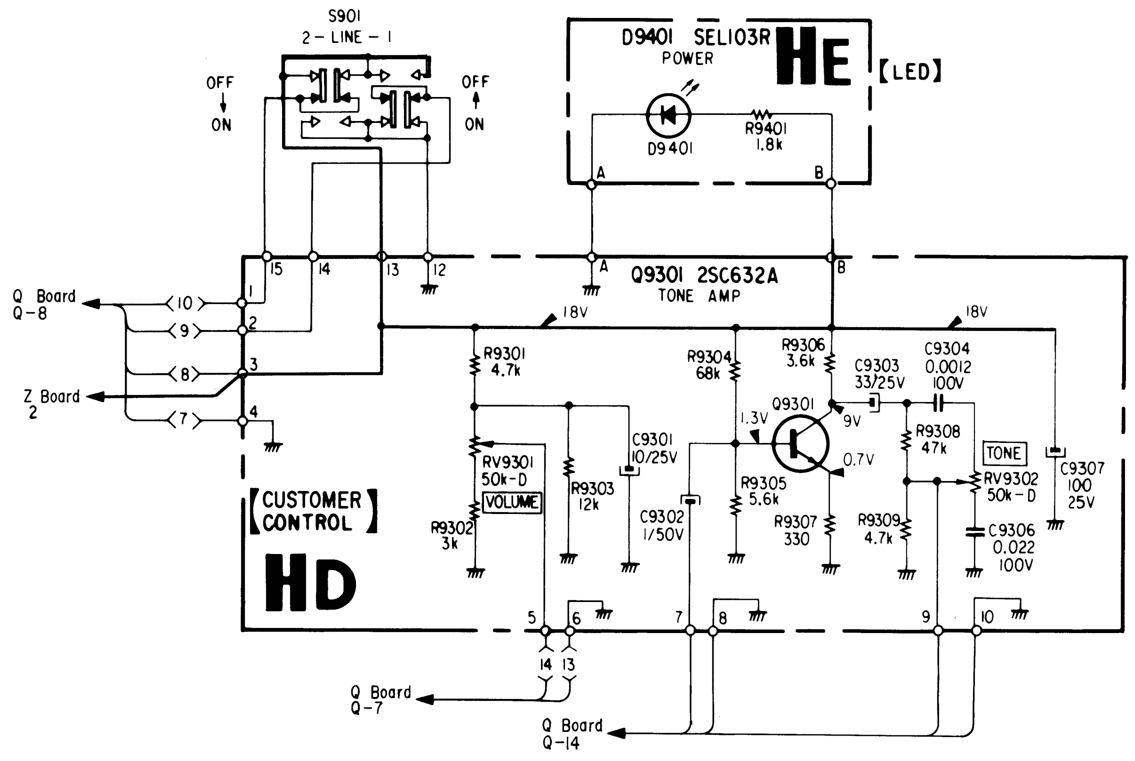
MOUNTING DIAGRAM
– HE, HD Board –


SONY
HE
F7V
1-600-142-11
D9401
R9401
Ⓐ
Ⓑ
1·600·141 11
C930
R9400
R9304
R9306
C9303
Q9301
TONE
VOL
RV9302
RV9301
R9303
C9307
R9305
R9307
C9304
C9302
R93
1
15
2
14
3
13
12
9
10
SONY
F7V

A B C D

1
2
3
4
5

SCHEMATIC DIAGRAM
– HE, HD Board –


S901
2 – LINE – 1
OFF
ON
OFF
ON
D9401 SEL103R
POWER
HE
[LED]
D9401
R9401
1.8k
A
B
15
14
13
12
A
B
Q9301 2SC632A
TONE AMP
Q Board
Q-8
10
9
8
7
1
2
3
4
Z Board
2
18V
18V
R9301
4.7k
RV9301
50k-D
VOLUME
R9302
3k
R9303
12k
C9301
10/25V
C9302
1/50V
R9304
68k
R9305
5.6k
1.3V
Q9301
9V
0.7V
R9306
3.6k
R9307
330
C9303
33/25V
C9304
0.0012
100V
R9308
47k
R9309
4.7k
TONE
RV9302
50k-D
C9306
0.022
100V
C9307
100
25V
[CUSTOMER CONTROL]
HD
5
6
7
8
9
10
14
13
Q Board
Q-7
Q Board
Q-14

A B C D E F

1

MOUNTING DIAGRAM

– DE Board –

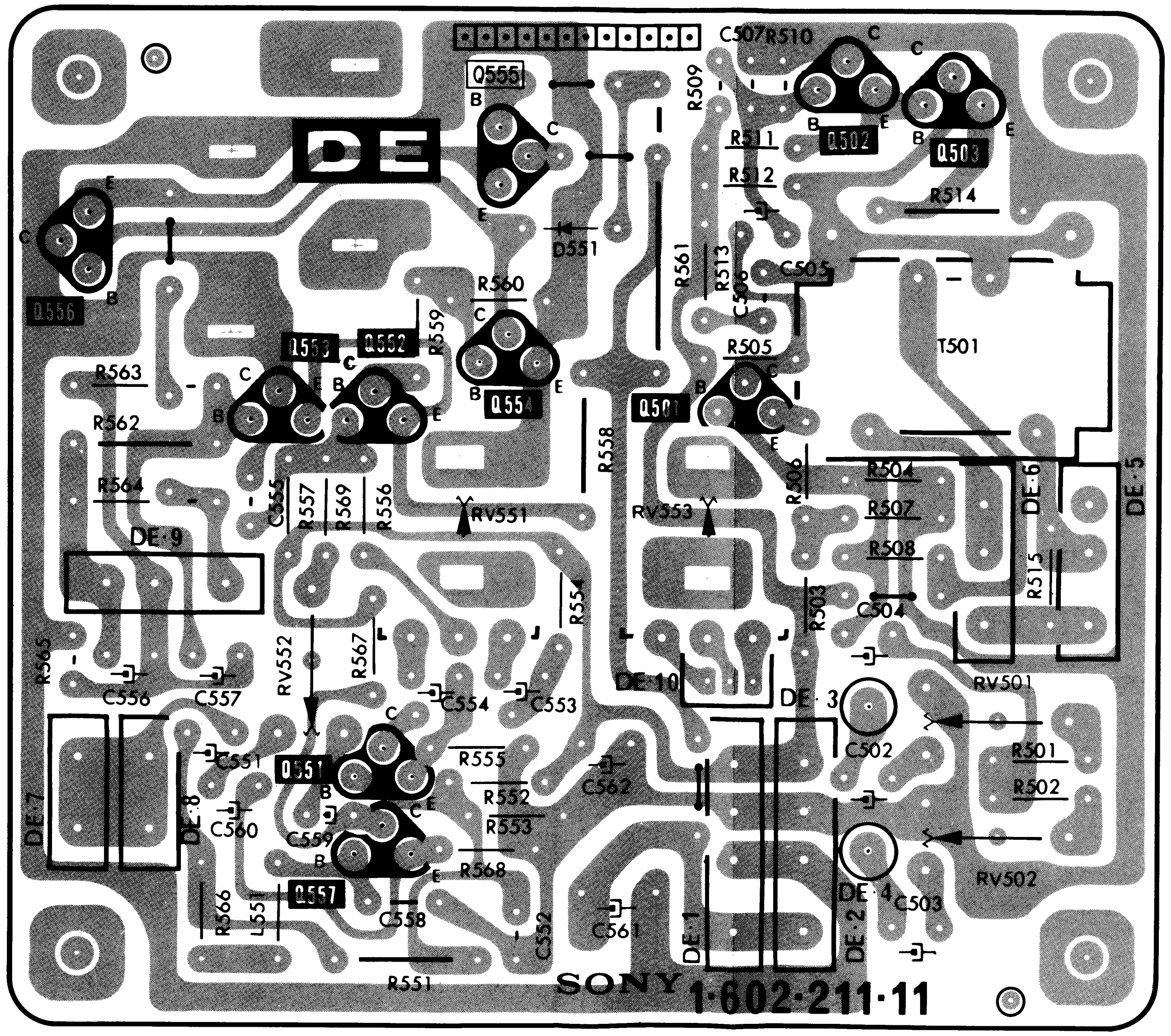
KP-5010PS : Serial No. 11,101 and later
KP-7210PS : Serial No. 11,301 and later

2

3

4

5

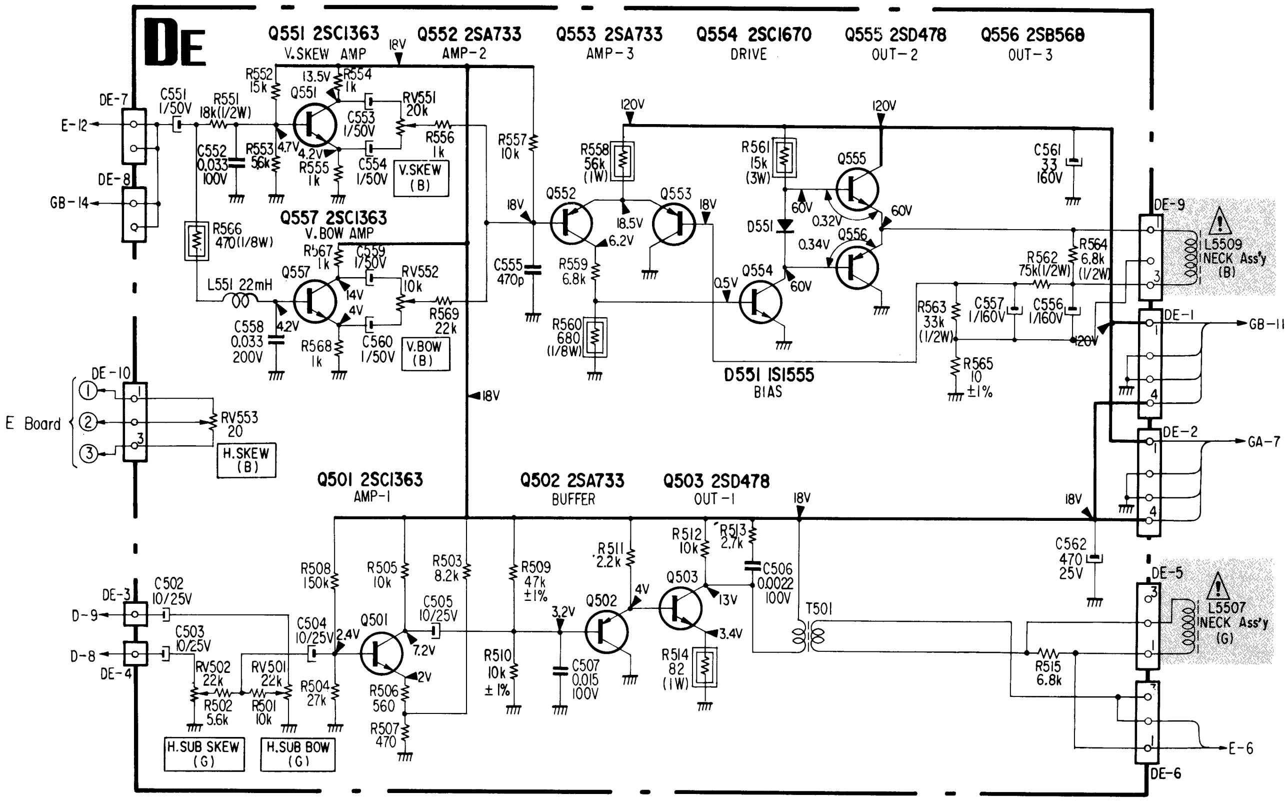

DE
Q555
Q502
Q503
Q556
Q553
Q552
Q554
Q501
Q551
Q557
C507
R510
R509
R511
R512
R514
D551
R561
R513
C506
C505
R560
R559
R505
T501
R563
R562
R564
R558
R506
R504
R507
R508
C555
R557
R569
R556
RV551
RV553
DE·9
DE·6
DE·5
R515
R554
R503
C504
R565
RV552
R567
C556
C557
C554
C553
DE·10
DE·3
RV501
C502
R501
R502
DE·7
DE·8
C551
C560
C559
R555
R552
R553
C562
R568
C558
R566
L551
C552
C561
DE·1
DE·2
DE·4
C503
RV502
R551
SONY
1·602·211·11
B
C
E

Q	D	ADJ
502 503 555		
556	511	
554		
553,552 501		
		RV551 RV553
		R552
		RV501
551		
557		RV502
Q	D	ADJ

SCHEMATIC DIAGRAM

– DE Board –

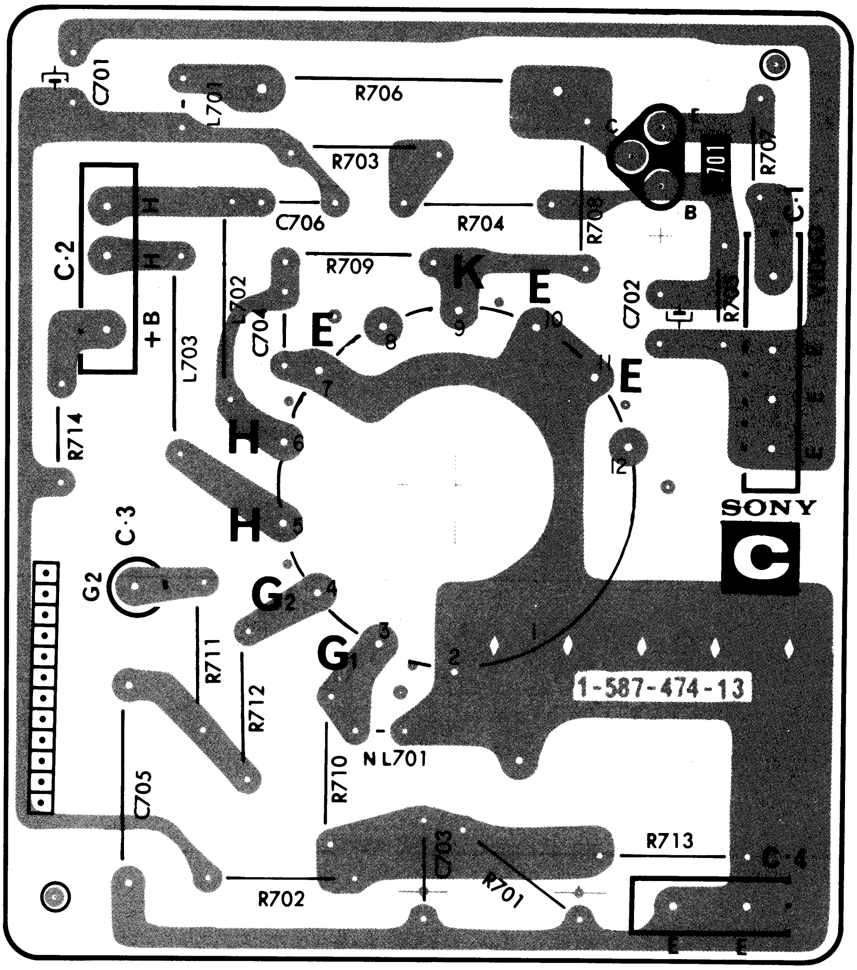
KP-5010PS : Serial No. 11,101 and later
KP-7210PS : Serial No. 11,301 and later


DE
Q551 2SC1363
V.SKEW AMP
Q552 2SA733
AMP-2
Q553 2SA733
AMP-3
Q554 2SC1670
DRIVE
Q555 2SD478
OUT-2
Q556 2SB568
OUT-3
Q557 2SC1363
V.BOW AMP
Q501 2SC1363
AMP-1
Q502 2SA733
BUFFER
Q503 2SD478
OUT-1
D551 1S1555
BIAS
DE-7
E-12
DE-8
GB-14
C551 1/50V
R551 18k(1/2W)
R552 15k
R553 56k
C552 0.033 100V
13.5V
R554 1k
RV551 20k
C553 1/50V
R556 1k
4.7V
4.2V
R555 1k
C554 1/50V
V.SKEW (B)
18V
R557 10k
R566 470(1/8W)
R567 1k
C559 1/50V
RV552 10k
L551 22mH
14V
4V
R569 22k
C558 0.033 200V
4.2V
R568 1k
C560 1/50V
V.BOW (B)
C555 470p
R558 56k (1W)
120V
18.5V
6.2V
R559 6.8k
R560 680 (1/8W)
R561 15k (3W)
60V
0.32V
0.34V
D551
0.5V
60V
C561 33 160V
R562 75k(1/2W)
R564 6.8k (1/2W)
R563 33k (1/2W)
C557 1/160V
C556 1/160V
120V
R565 10 ±1%
DE-9
L5509 NECK Ass'y (B)
DE-1
GB-11
DE-2
GA-7
DE-10
E Board
RV553 20
H.SKEW (B)
DE-3
D-9
C502 10/25V
DE-4
D-8
C503 10/25V
RV502 22k
R502 5.6k
RV501 22k
R501 10k
H.SUB SKEW (G)
H.SUB BOW (G)
R508 150k
R505 10k
R503 8.2k
C504 10/25V
2.4V
C505 10/25V
7.2V
R504 27k
R506 560
R507 470
2V
R509 47k ±1%
R510 10k ± 1%
3.2V
C507 0.015 100V
R511 2.2k
R512 10k
R513 2.7k
4V
13V
3.4V
R514 82 (1W)
C506 0.0022 100V
T501
C562 470 25V
DE-5
L5507 NECK Ass'y (G)
R515 6.8k
E-6
DE-6

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

C [B, G, R, OUT]

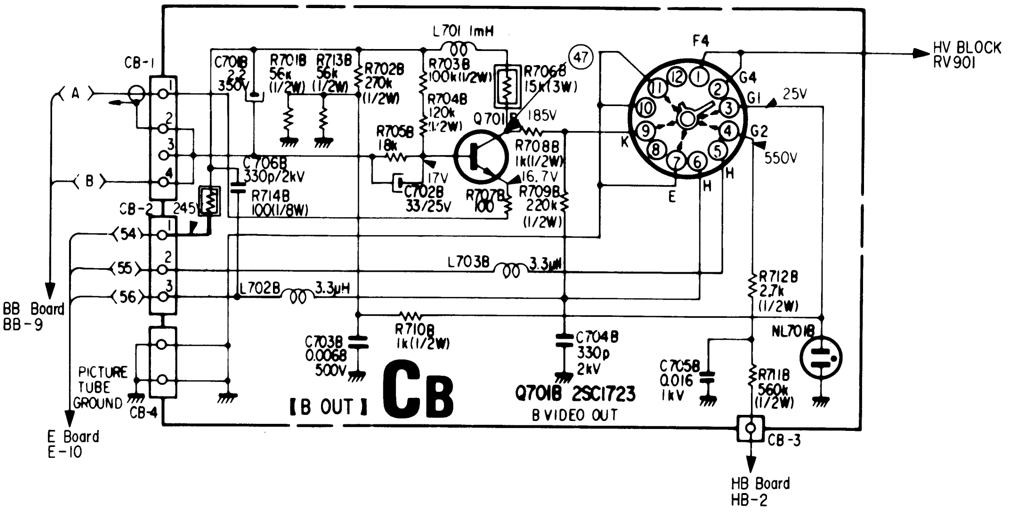
MOUNTING DIAGRAM
— CB/CG/CR Board —


A
B
C
D
1
2
3
4
5
C701
L701
R706
R703
C706
R704
R708
C
E
B
701
R707
C-2
H
H
+B
L702
C704
L703
R709
K
E
E
7
8
9
10
11
E
C702
R705
C-1
R714
H
6
H
5
12
SONY
C
C-3
G2
G2
4
3
G1
2
1
1-587-474-13
R711
R712
R710
N L701
C705
C703
R701
R713
C-4
R702
E
E

[B. OUT] **CB** [G. OUT] **CG** [R. OUT] **CR**

A B C D

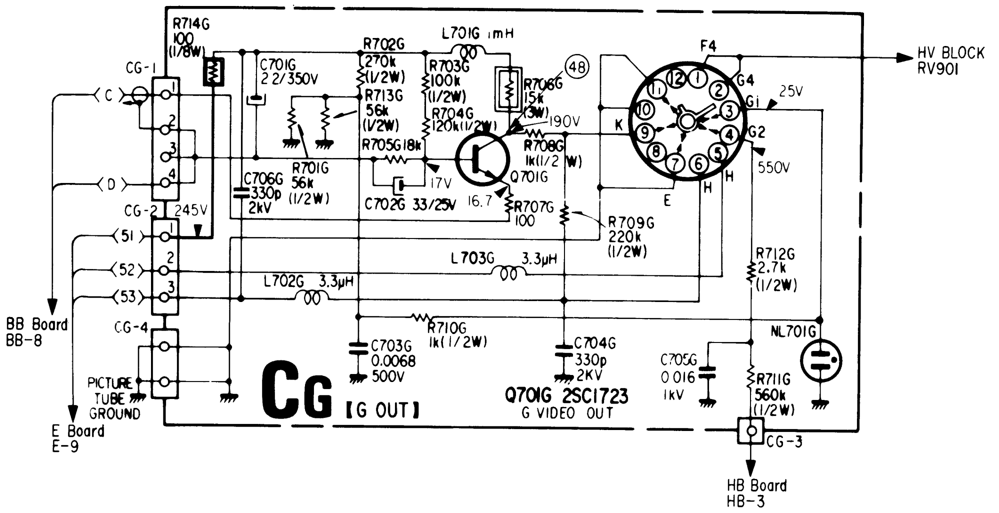
SCHEMATIC DIAGRAM
– CB Board –


CB-1
A
B
CB-2
54
55
56
BB Board
BB-9
PICTURE TUBE GROUND
CB-4
E Board
E-10
C701B 2.2 350V
R701B 56k (1/2W)
R713B 56k (1/2W)
R702B 270k (1/2W)
L701 1mH
R703B 100k(1/2W)
R704B 120k (1/2W)
R705B 18k
R706B 15k(3W)
47
Q701B
185V
R708B 1k(1/2W)
16.7V
R709B 220k (1/2W)
17V
C702B 33/25V
R707B 100
C706B 330p/2kV
R714B 100(1/8W)
245V
L703B 3.3μH
L702B 3.3μH
R710B 1k(1/2W)
C703B 0.0068 500V
[B OUT]
CB
C704B 330p 2kV
Q701B 2SC1723
B VIDEO OUT
C705B 0.016 1kV
R711B 560k (1/2W)
R712B 2.7k (1/2W)
NL701B
CB-3
HB Board
HB-2
F4
G4
G1
25V
G2
550V
K
E
H
HV BLOCK
RV901

1

2

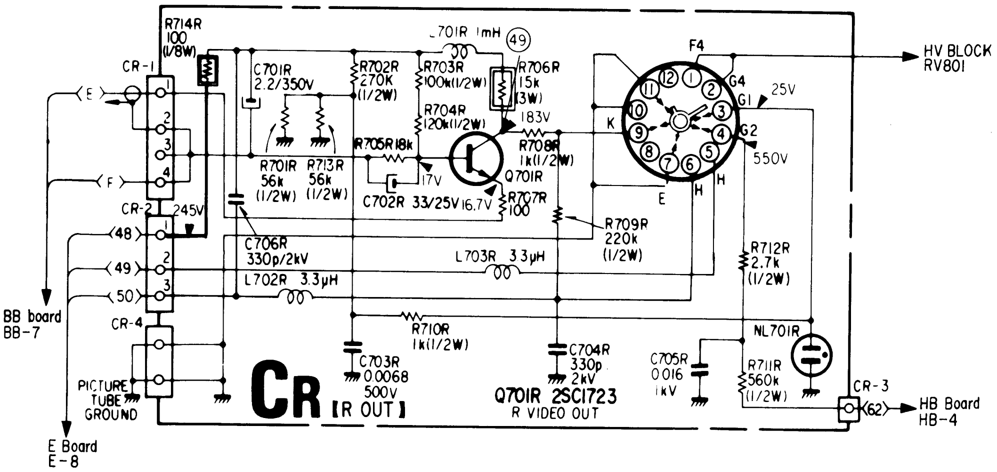
SCHEMATIC DIAGRAM
– CG Board –


R714G 100 (1/8W)
CG-1
C
D
CG-2
245V
51
52
53
BB Board
BB-8
CG-4
PICTURE TUBE GROUND
E Board
E-9
C701G 2.2/350V
R702G 270k (1/2W)
R713G 56k (1/2W)
L701G 1mH
R703G 100k (1/2W)
R704G 120k(1/2W)
R706G 15k (3W)
48
190V
R705G 18k
R708G 1k(1/2W)
Q701G
17V
C702G 33/25V
16.7
R707G 100
C706G 330p 2kV
R701G 56k (1/2W)
R709G 220k (1/2W)
L703G 3.3μH
L702G 3.3μH
R710G 1k(1/2W)
C703G 0.0068 500V
CG
[G OUT]
C704G 330p 2KV
Q701G 2SC1723
G VIDEO OUT
C705G 0.016 1kV
R711G 560k (1/2W)
R712G 2.7k (1/2W)
NL701G
CG-3
HB Board
HB-3
F4
G4
G1
25V
G2
550V
K
E
H
HV BLOCK
RV901

3

SCHEMATIC DIAGRAM
– CR Board –

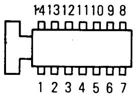
4


R714R 100 (1/8W)
CR-1
E
F
CR-2
245V
48
49
50
BB board
BB-7
CR-4
PICTURE TUBE GROUND
E Board
E-8
C701R 2.2/350V
R702R 270K (1/2W)
L701R 1mH
49
R703R 100k(1/2W)
R704R 120k(1/2W)
R706R 15k (3W)
183V
R705R 18k
R708R 1k(1/2W)
Q701R
17V
R701R 56k (1/2W)
R713R 56k (1/2W)
C702R 33/25V
16.7V
R707R 100
C706R 330p/2kV
R709R 220k (1/2W)
L703R 3.3μH
L702R 3.3μH
R710R 1k(1/2W)
C703R 0.0068 500V
CR
[R OUT]
C704R 330p 2kV
Q701R 2SC1723
R VIDEO OUT
C705R 0.016 1kV
R711R 560k (1/2W)
R712R 2.7k (1/2W)
NL701R
CR-3
62
HB Board
HB-4
F4
G4
G1
25V
G2
550V
K
E
H
HV BLOCK
RV801

5

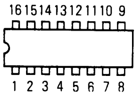
5-3. SEMICONDUCTORS

CX095C


14 13 12 11 10 9 8
1 2 3 4 5 6 7

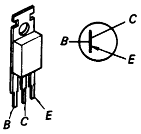
(Top view)

TBA540
TCA640
TCA650
TCA660B

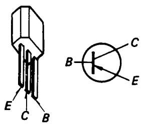

16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8

(Top view)

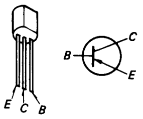
2SA671
2SB568



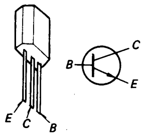
2SA678
2SA1027R



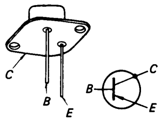
2SA684
2SA773



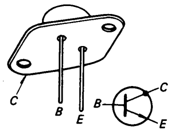
2SC403C
2SC632A
2SC634A



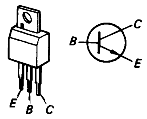
2SC867
2SC867A



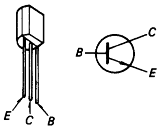
2SC1114
2SC1116A
2SD725



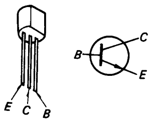
2SC1124
2SC1962



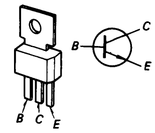
2SC1362
2SC1364



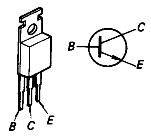
2SC1474
2SC1475
2SC1670
2SC1890A
2SD666A



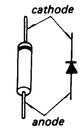
2SC1723



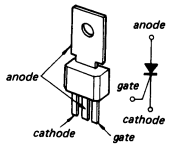
2SC1061
2SD478



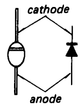
1S1555
1S1585
10E2


cathode
anode

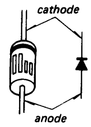
CV12E


anode
anode
gate
cathode
cathode
gate

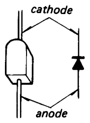
ERC26-15
GH3F
U05E
V06C
V09C
V11N


cathode
anode

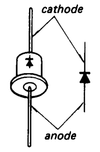
EQA01-05S
EQA01-06S
EQA01-08S
EQA01-10R
EQA01-11S
EQA01-25R
EQB01-05
EQB01-06
EQB01-08
EQB01-10
EQB01-11Z
EQB01-25
SIB01-02


cathode
anode

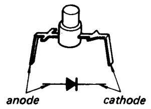
HF1
HF1A


cathode
anode

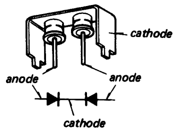
S34
SB2B


cathode
anode

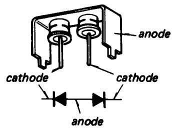
SEL103R


anode
cathode

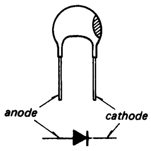
S5151


cathode
anode
anode
cathode

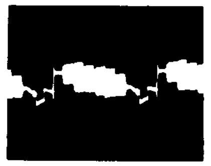
S5151R

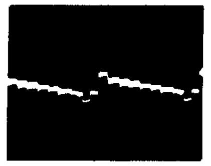

anode
cathode
cathode
anode

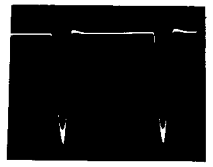
VD1220

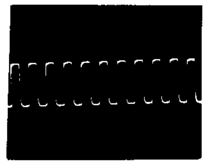

anode
cathode

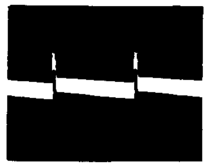
5-4. WAVEFORMS

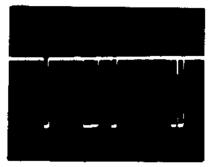

① ② PAL, NTSC
1Vp-p (H)

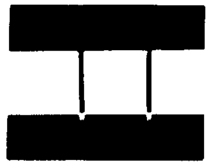

① ② SECAM
1Vp-p (H)

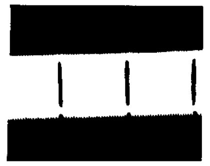

③ 100Vp-p (H)

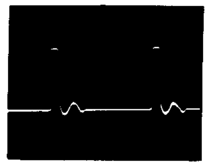

④ 4.4Vp-p

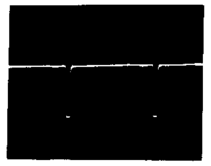

⑤ 86Vp-p (V)

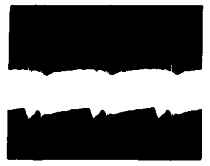

⑥ 6.8Vp-p

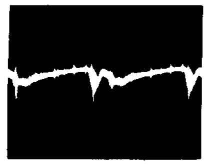

⑦ 6.8Vp-p

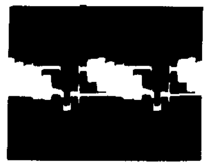

⑧ 1.6Vp-p

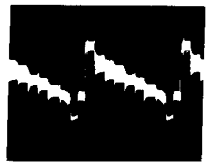

⑨ 14Vp-p (H)

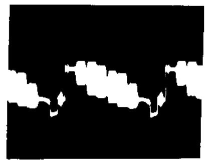

⑩ 5.2Vp-p (H)

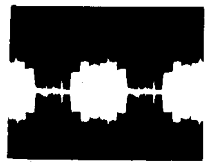

⑪ PAL, NTSC
0.8Vp-p (H)

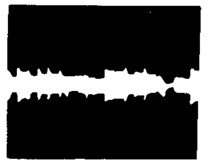

⑪ SECAM
0.5Vp-p (H)

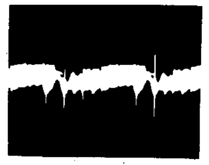

⑫ PAL
2.6Vp-p (H)

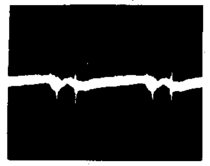

⑫ SECAM
2.2Vp-p (H)

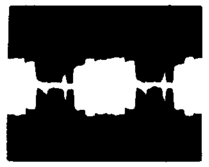

⑫ NTSC
2.8Vp-p (H)

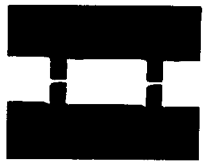

⑬ PAL, NTSC
3.3Vp-p (H)

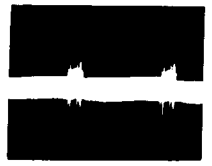

⑬ SECAM
0.8Vp-p (H)


⑭ PAL, NTSC
0.44Vp-p (H)


⑭ SECAM
0.54Vp-p (H)


⑮ PAL........ 2.5Vp-p (H)
NTSC..... 0.62Vp-p (H)


⑮ SECAM
2.6Vp-p (H)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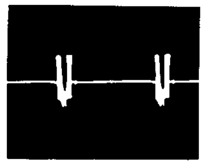
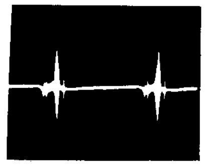
2Vp-p (H)


⑯ SECAM
5.2Vp-p (H)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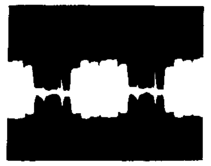
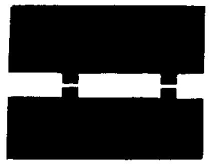

⑰ PAL ....2Vp-p (H)
NTSC......0.62Vp-p (H)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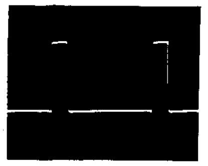
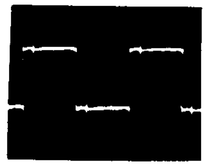

⑱ PAL, SECAM, NTSC
7Vp-p (H)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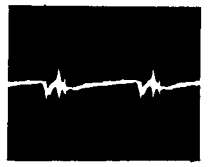
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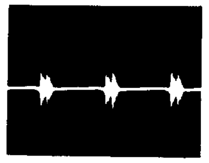
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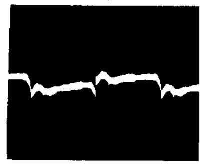
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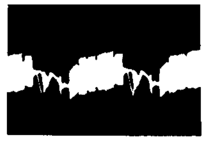
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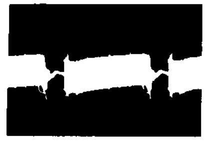
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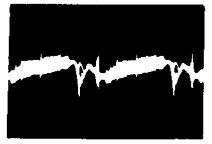
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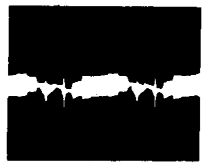
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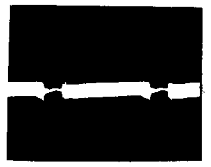
0.4Vp-p (H)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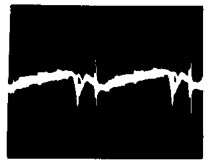
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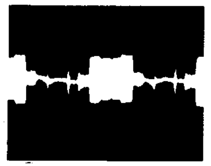
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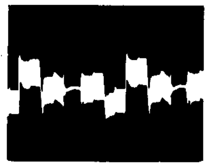
1.4Vp-p (H)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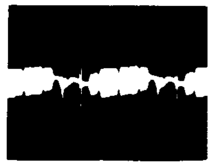
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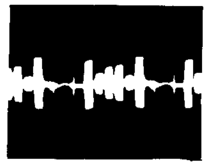
1Vp-p (H)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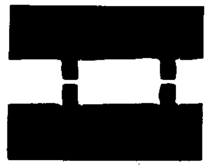
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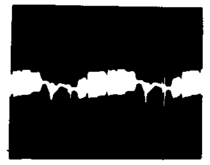
2.4Vp-p (H)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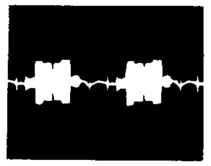
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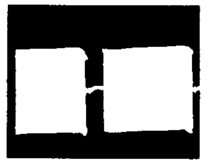
1.2Vp-p (H)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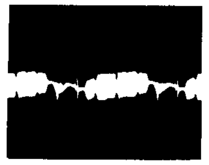
2.2Vp-p (H)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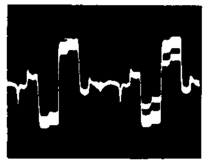
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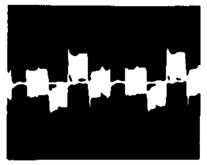
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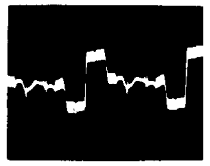
1.6Vp-p (H)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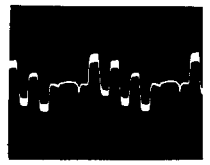
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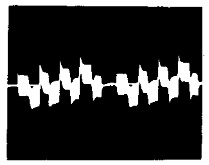
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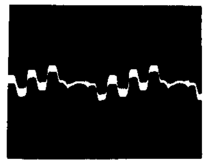
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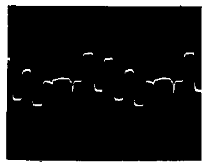
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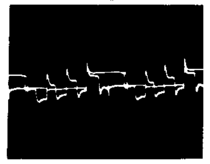
2.4Vp-p (H)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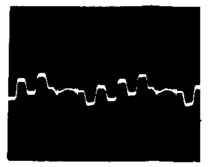
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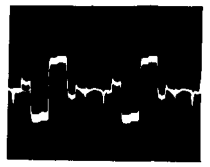
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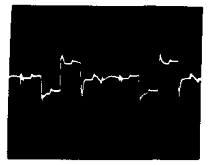
1.7Vp-p (H)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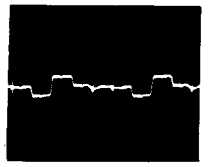
2.2Vp-p (H)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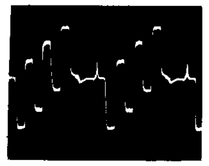
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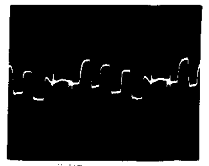
2.5Vp-p (H)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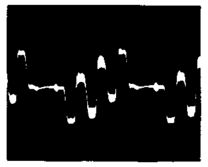
1Vp-p (H)


㉛ NTSC
3.6Vp-p (H)

... 2.5Vp-p (H)
... 0.62Vp-p (H)

p-p (H)

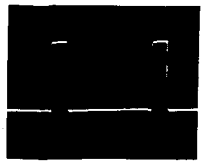
p (H)

p-p (H)

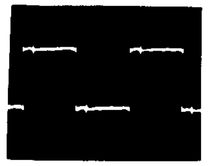
p-p (H)

..2Vp-p (H)
..0.62Vp-p (H)

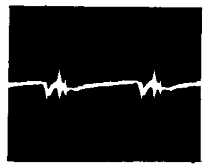
p-p (H)



⑱ PAL, SECAM, NTSC
7Vp-p (H)



⑲ PAL, SECAM, NTSC
3.3Vp-p (H)



⑳ PAL, NTSC
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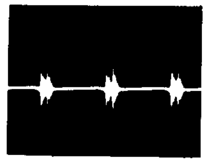

⑳ SECAM
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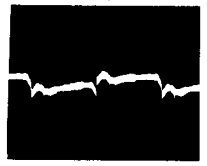

㉑ PAL, SECAM, NTSC
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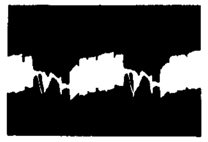
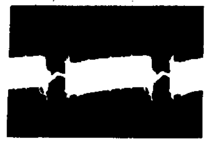
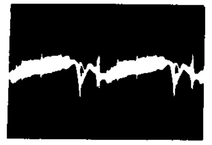


㉒ PAL
0.46Vp-p (H)



㉒ SECAM
0.8Vp-p (H)



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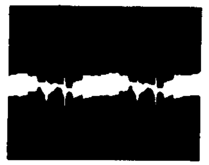
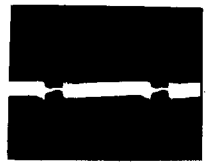
0.46Vp-p (H)



㉓ PAL
0.4Vp-p (H)



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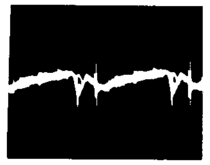
0.6Vp-p (H)



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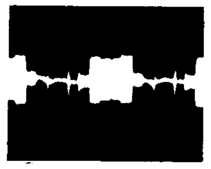
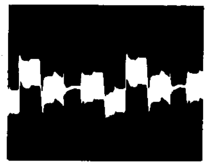


㉔ PAL
1.4Vp-p (H)



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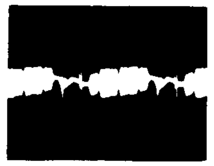

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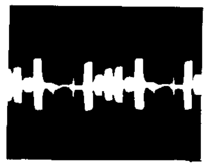
1Vp-p (H)



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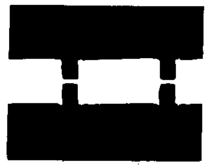
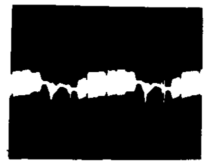
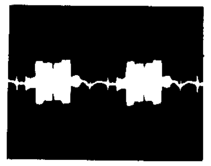
1.6Vp-p (H)



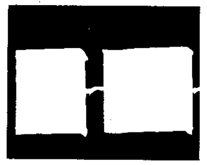
㉕ SECAM
2.4Vp-p (H)



㉕ NTSC
1Vp-p (H)



㉖ PAL
1.2Vp-p (H)



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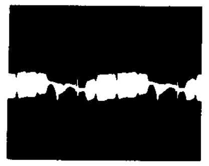
2.2Vp-p (H)



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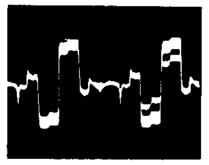
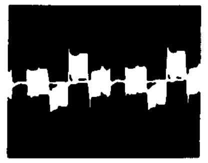


㉗ PAL
2.2Vp-p (H)



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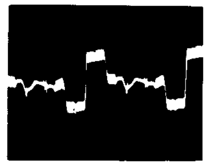
1.6Vp-p (H)



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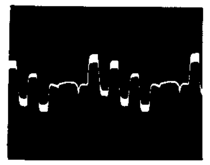
0.64Vp-p (H)



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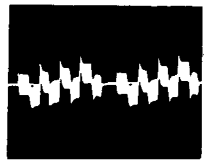
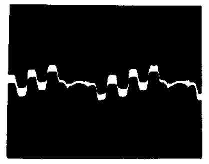
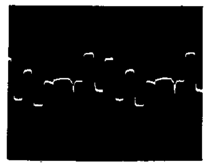


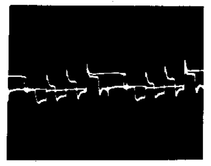
㉘ SECAM
2.6Vp-p (H)



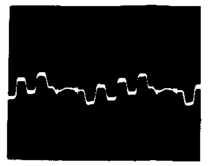
㉘ NTSC
0.9Vp-p (H)



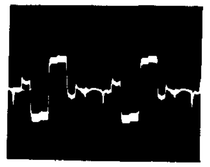
㉙ PAL
2.4Vp-p (H)



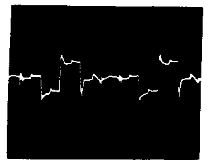
㉙ SECAM
2Vp-p (H)



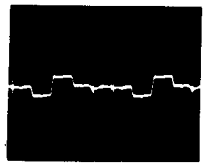
㉙ NTSC
0.8Vp-p (H)



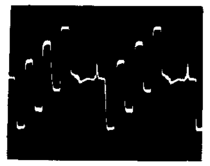
㉚ PAL
1.7Vp-p (H)



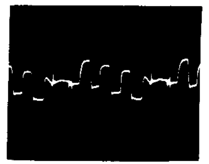
㉚ SECAM
2.2Vp-p (H)



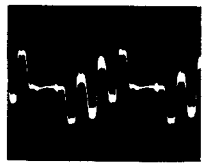
㉚ NTSC
0.6Vp-p (H)



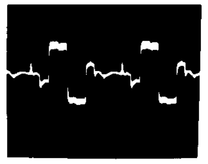
㉛ PAL
2.5Vp-p (H)



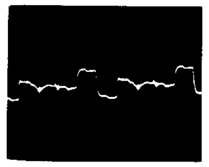
㉛ SECAM
1Vp-p (H)



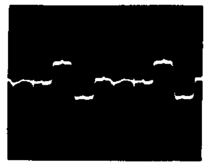
㉛ NTSC
3.6Vp-p (H)



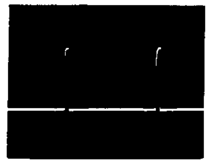
㉜ PAL
1.6Vp-p (H)



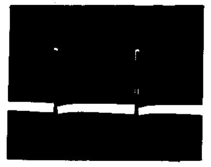
㉜ SECAM
0.8Vp-p (H)



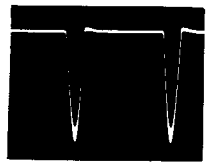
㉜ NTSC
1Vp-p (H)



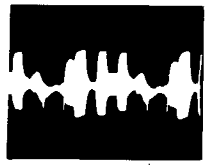
㉝ PAL, SECAM, NTSC
16Vp-p (H)



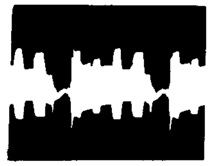
㉞ PAL, SECAM, NTSC
33Vp-p (V)



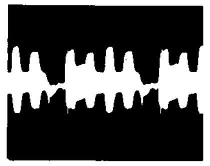
㉟ PAL, SECAM, NTSC
114Vp-p (H)



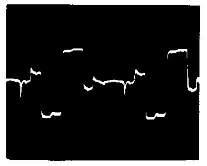
㊱ PAL
0.66Vp-p (H)



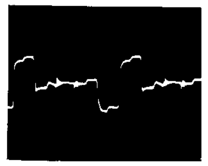
㊱ SECAM
1Vp-p (H)



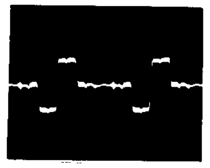
㊱ NTSC
0.9Vp-p (H)



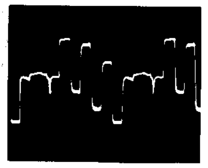
㊲ PAL
3.4Vp-p (H)



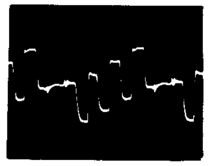
㊲ SECAM
2.8Vp-p (H)



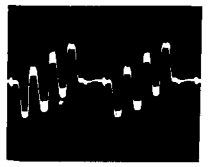
㊲ NTSC
2.6Vp-p (H)



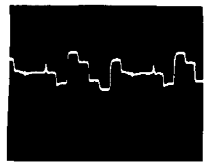
㊳ PAL
4.2Vp-p (H)



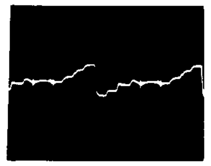
㊳ SECAM
3.7Vp-p (H)



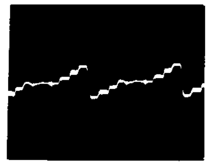
㊳ NTSC
3.6Vp-p (H)



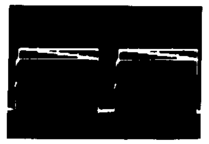
㊴ PAL
1.9Vp-p (H)



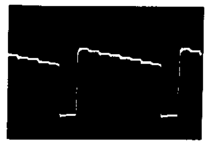
㊴ SECAM
1.6Vp-p (H)



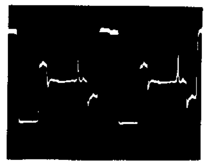
㊴ NTSC
1.6Vp-p (H)



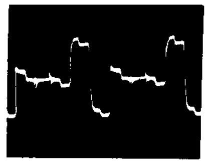
㊵ PAL
6.2Vp-p (H)



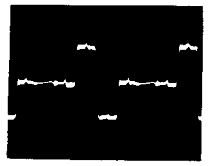
㊵ SECAM, NTSC
6.8Vp-p (H)



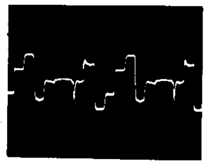
㊶ PAL
9.6Vp-p (H)



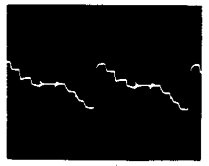
㊶ SECAM
8Vp-p (H)



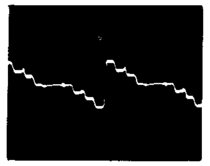
㊶ NTSC
7.6Vp-p (H)



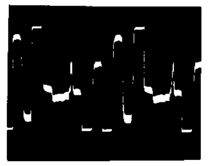
㊷ PAL
5.6Vp-p (H)

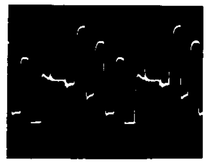


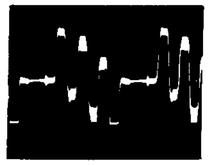
㊷ SECAM
4.4Vp-p (H)

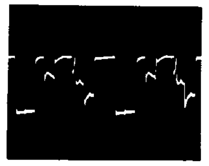


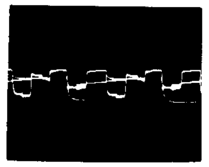
㊷ NTSC
4.6Vp-p (H)

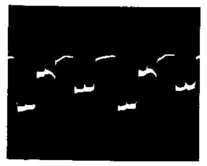

㊸ PAL
10.4Vp-p (H)

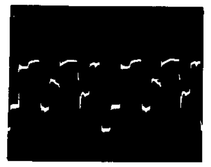

㊸ SECAM
10Vp-p (H)

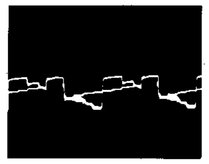

㊸ NTSC
9.4Vp-p (H)

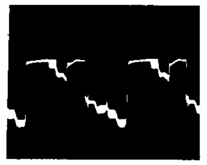

㊹ PAL
3.1Vp-p (H)

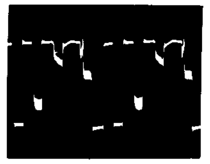

㊹ SECAM
1.4Vp-p (H)

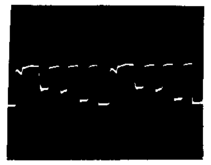

㊹ NTSC
1.4Vp-p (H)

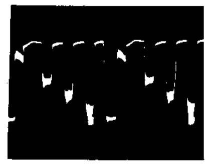

㊺ PAL
3.6Vp-p (H)

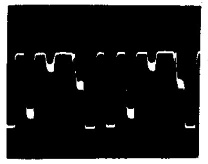

㊺ SECAM
1.6Vp-p (H)

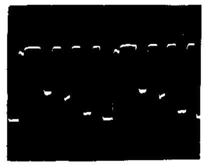

㊺ NTSC
1.7Vp-p (H)

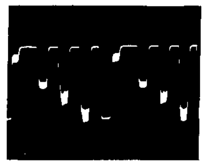

㊻ PAL
4.8Vp-p (H)

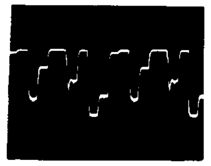

㊻ SECAM
2Vp-p (H)

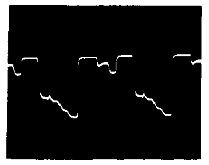

㊻ NTSC
2Vp-p (H)

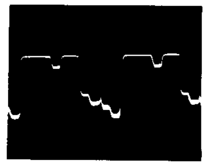

㊼ PAL
190Vp-p (H)


㊼ SECAM
185Vp-p (H)


㊼ NTSC
180Vp-p (H)


㊽ PAL
165Vp-p (H)


㊽ SECAM
150Vp-p (H)


㊽ NTSC
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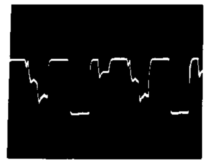
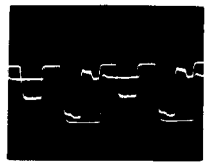
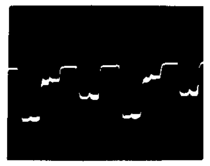
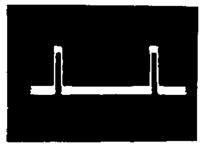
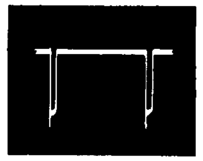
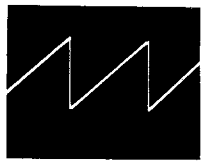

㊾ PAL
145Vp-p (H)

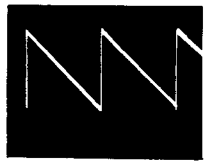

㊾ SECAM
150Vp-p (H)

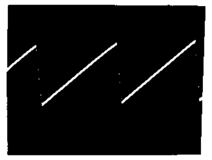

㊾ NTSC
130Vp-p (H)

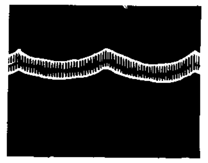

㊿ 0.7Vp-p (V)

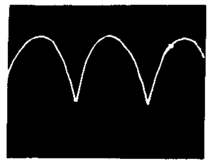

(51) 4.6Vp-p (V)

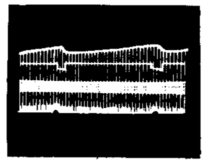

(52) 3.1Vp-p (V)

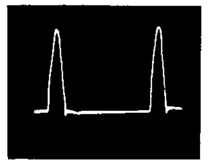

(53) 3Vp-p (V)

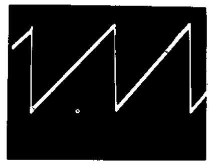

(54) 0.55Vp-p (H)

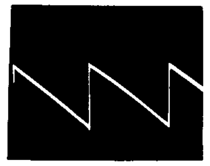

(55) 0.27Vp-p (V)


(56) 3Vp-p (V)


(57) 2Vp-p (V)


(58) 3.3Vp-p (H)


(59) 3Vp-p (V)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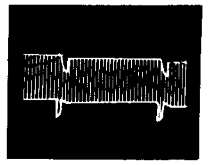
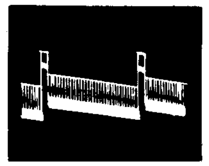
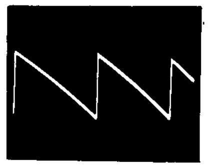

(61) 0.27Vp-p (V)


(62) 106Vp-p (V)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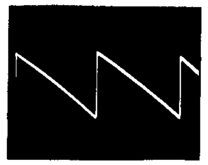
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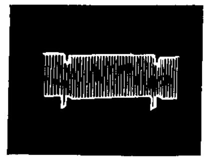
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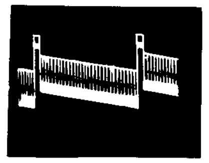
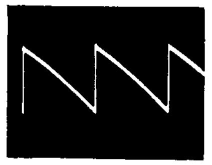
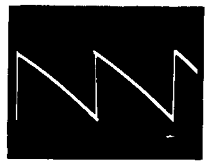
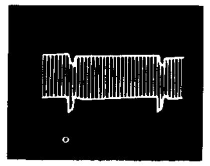
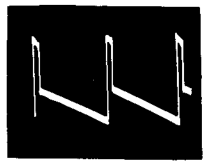
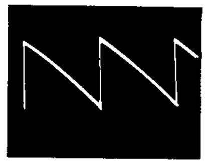

(66) 112Vp-p (V)

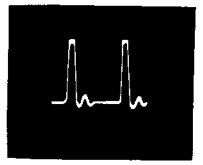

(67) 2.4Vp-p (V)

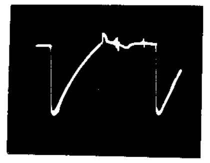

(68) 2.4Vp-p (V)

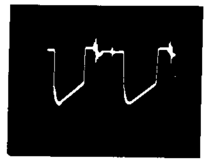

(69) 0.27Vp-p (V)

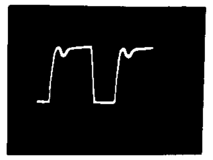

(70) 86Vp-p (V)

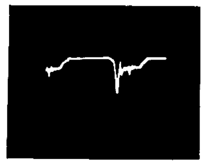

(71) 2.4Vp-p (V)

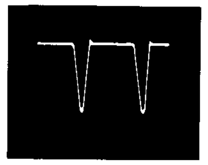

(72) 9.2Vp-p (H)

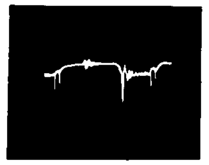

(73) 5.8Vp-p (H)

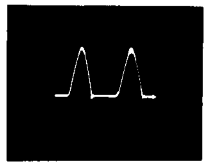

(74) 4Vp-p (H)

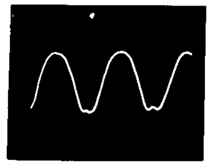

(75) 190Vp-p (H)

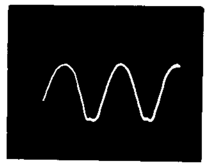

(76) 14.2Vp-p (H)


(77) 88Vp-p (H)


(78) 17Vp-p (H)


(79) 450Vp-p (H)


(80) 12.6Vp-p (H)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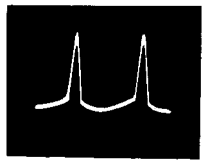
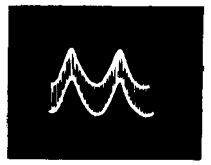
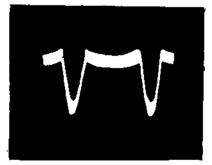
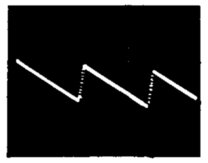
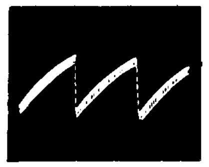

(82) 33.5Vp-p (H)


(83) 37Vp-p (H)


(84) 98Vp-p (H)


(85) 1.6Vp-p (V)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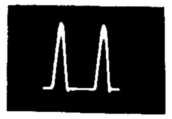
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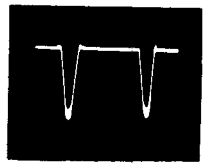
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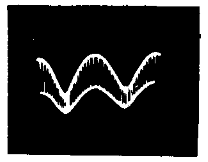
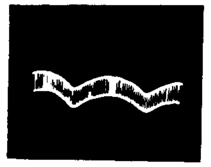
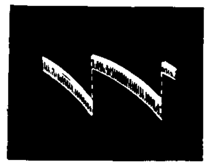
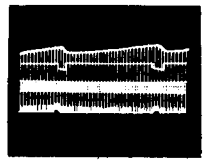

(89) 33Vp-p (H)


(90) 37Vp-p (H)


(91) 0.5Vp-p (V)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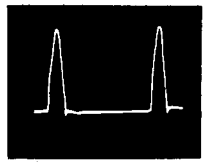
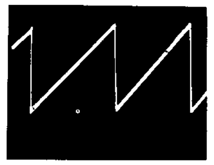

(58) 3.3Vp-p (H)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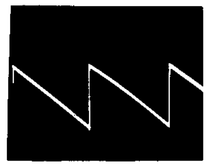
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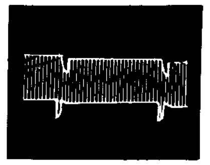
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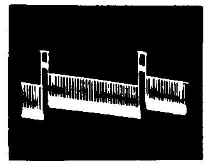
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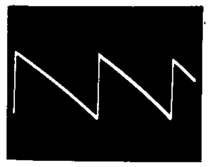
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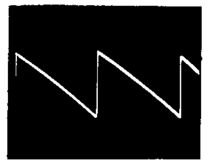
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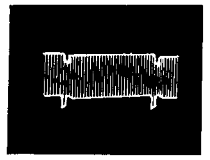
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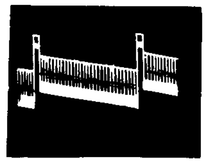
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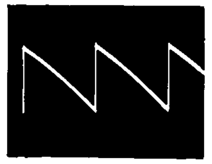
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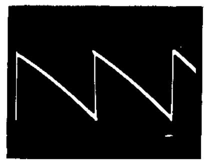
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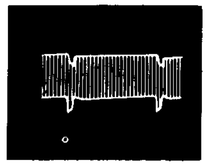
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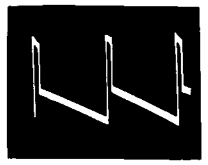
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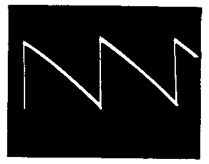
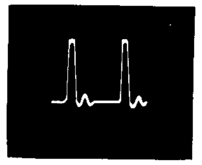
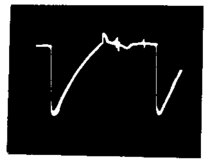

(71) 2.4Vp-p (V)


(72) 9.2Vp-p (H)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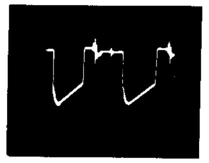
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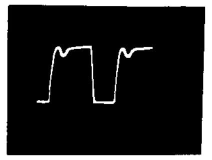
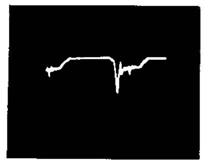

(75) 190Vp-p (H)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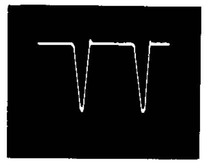
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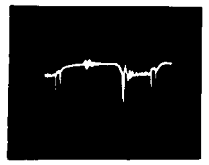
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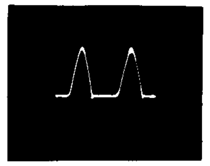
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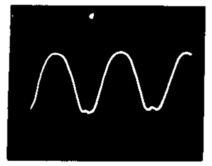
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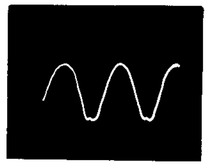
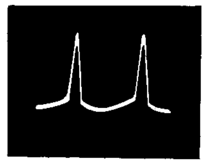
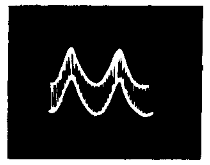

(81) 12.6Vp-p (H)


(82) 33.5Vp-p (H)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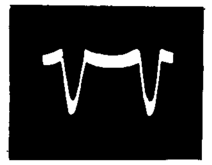
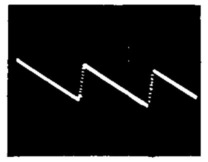

(84) 98Vp-p (H)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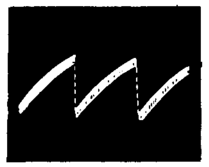
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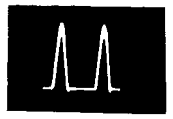
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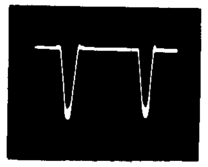
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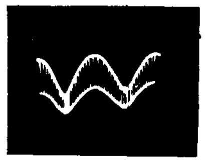
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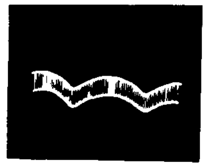
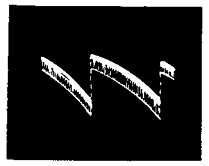
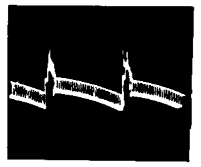
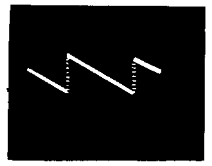
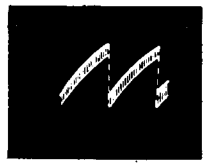
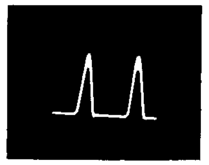

(90) 37Vp-p (H)

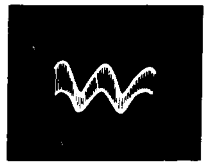

(91) 0.5Vp-p (V)

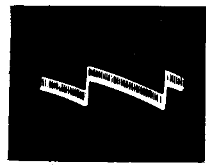

(92) 3Vp-p (V)

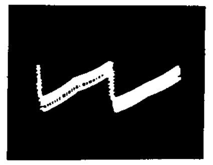

(93) 1.6Vp-p (V)

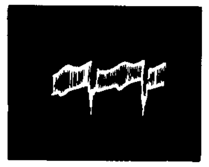

(94) 18Vp-p (V)

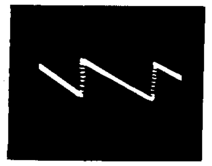

(95) 790Vp-p (H)

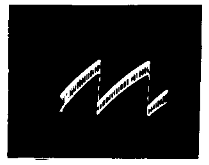

(96) 38Vp-p (V)

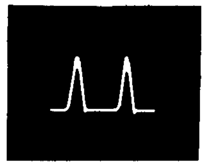

(97) 0.9Vp-p (V)

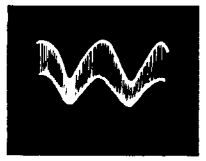

(98) 0.4Vp-p (V)

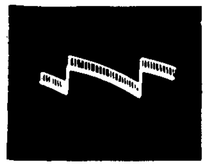

(99) 3.4Vp-p (V)

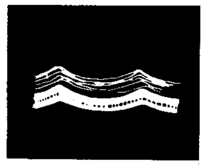

(100) 1.6Vp-p (V)

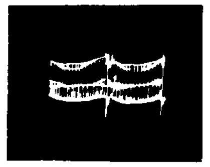

(101) 18Vp-p (V)

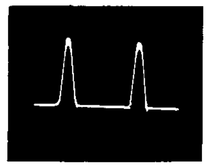

(102) 790Vp-p (H)


(103) 37Vp-p (H)


(104) 0.9Vp-p (V)


(105) 0.23Vp-p (V)


(106) 1.4Vp-p (H)


(107) 850Vp-p (H)

SECTION 6
EXPLODED VIEWS

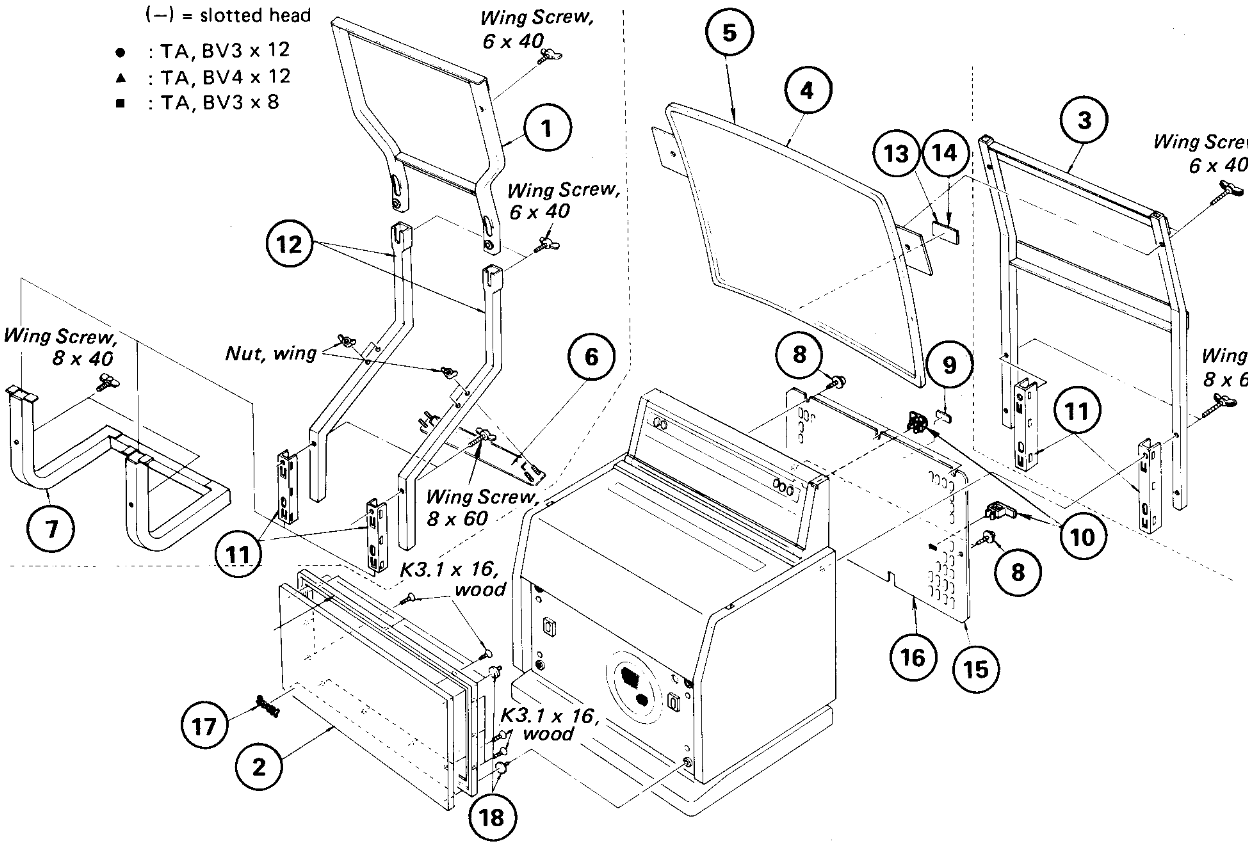
(1)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

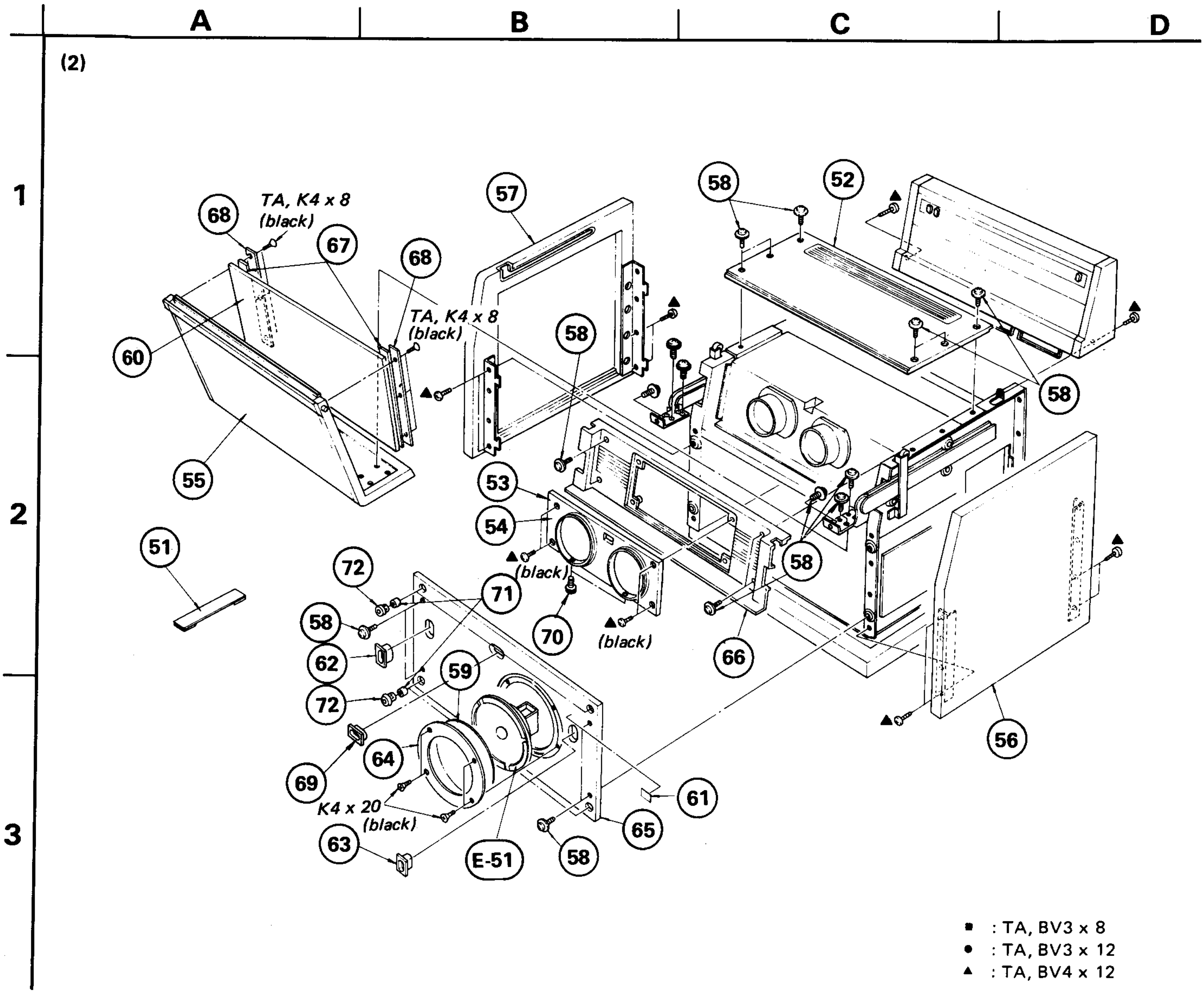
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ● : TA, BV3 x 12
- ▲ : TA, BV4 x 12
- ■ : TA, BV3 x 8

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.


A
B
C
D
1
2
3
Wing Screw, 6 x 40
1
Wing Screw, 6 x 40
12
Wing Screw, 8 x 40
Nut, wing
6
7
11
Wing Screw, 8 x 60
K3.1 x 16, wood
K3.1 x 16, wood
17
2
18
5
4
13
14
3
Wing Screw, 6 x 40
8
9
Wing Screw, 8 x 60
11
10
8
16
15

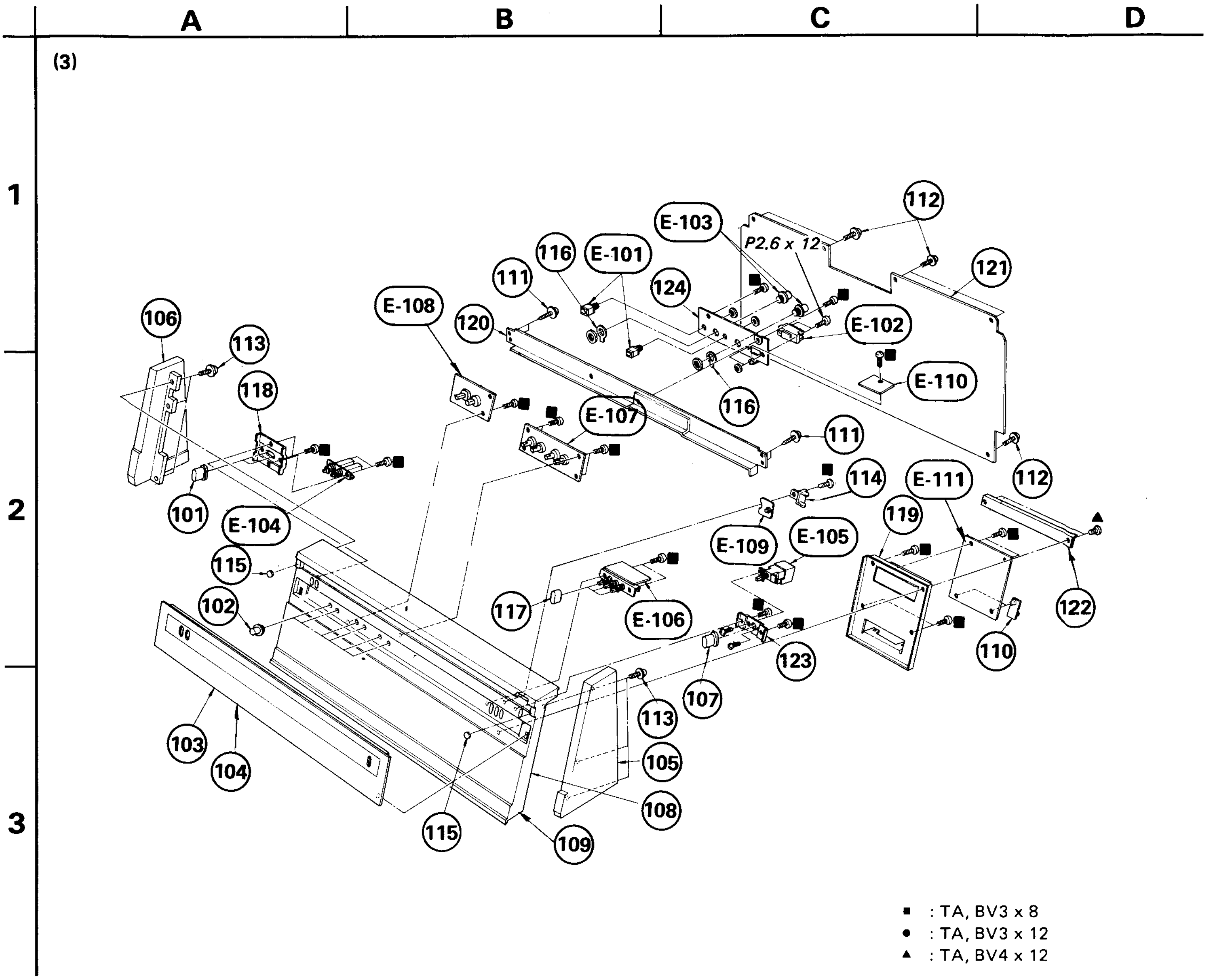
No.		Part No.	Description	Remark
1		X-4332-203-0	Pole Ass'y, screen (KP-7210PS)	
2		X-4332-204-0	Grille Ass'y, speaker	
3		X-4332-206-0	Pole Ass'y, screen (KP-5010PS)	
4		X-4332-208-0	Screen Ass'y (KP-5010PS)	
5		X-4332-210-0	Screen Ass'y (KP-7210PS)	
6		X-4332-214-0	Stay (C) Ass'y, screen pole (KP-7210PS)	
7		X-4332-243-0	Pole Ass'y (KP-7210PS)	
8		4-302-404-00	Screw, self-tapping; 4 x 16	
9		4-302-759-00	Label, serial number	
10	♦	4-304-418-00	Clamp, cord	
11		4-332-252-00	Holder, screen pole	
12		4-332-274-00	Pole (B), screen (KP-7210PS)	
13		4-333-906-01	Label, screen (KP-7210PS)	
14		4-333-907-00	Label, screen (KP-5010PS)	
15		4-333-911-00	Cover (main), rear (KP-5010PS)	
16		4-333-912-00	Cover (main), rear (KP-7210PS)	
17		4-849-833-00	Emblem, SONY	
18		4-855-710-00	Strike	

(2)


A
B
C
D
1
2
3
68
TA, K4 x 8 (black)
67
68
TA, K4 x 8 (black)
60
55
51
57
58
53
54
(black)
72
71
58
62
59
72
69
64
K4 x 20 (black)
63
E-51
70
(black)
58
52
58
58
66
56
61
65
58

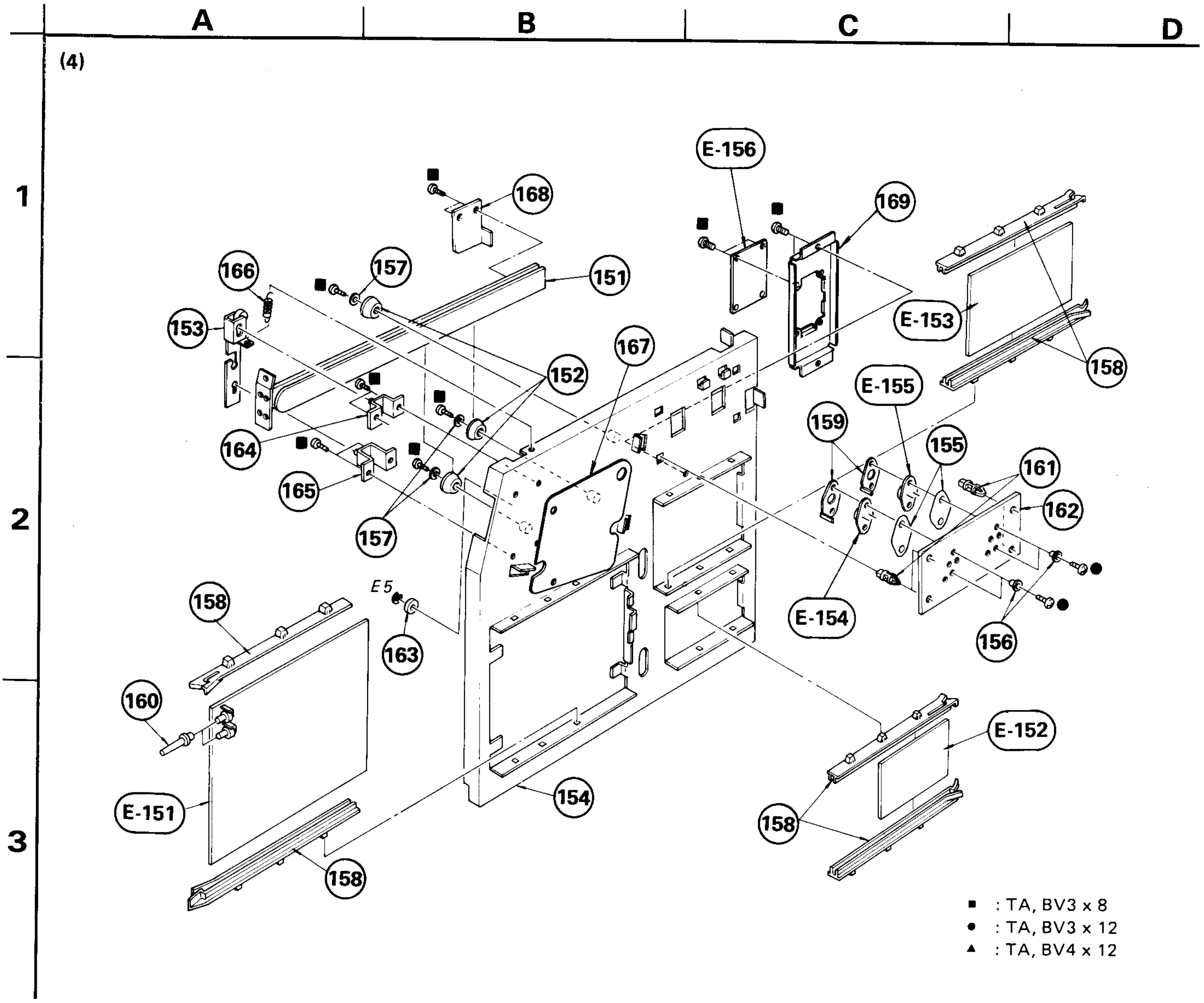
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.	*Part No.*	*Description*	*Remark*	*No.*	*Part No.*	*Description*	*Remark*
51	X-4309-608-0	Permalloy Ass'y, convergence		62	4-332-222-02	Holder, control	
52	X-4332-207-0	Panel Ass'y, top		63	4-332-222-12	Holder, control	
53	X-4332-224-0	Panel (C) Ass'y, lens (KP-5010PS)		64	4-332-235-00	Holder, speaker	
54	X-4332-225-0	Panel (D) Ass'y, lens (KP-7210PS)		65	♦ 4-332-258-00	Board, baffle; speaker	
55	X-4332-230-0	Cover Ass'y, reflector		66	♦ 4-332-271-00	Panel, front	
56	X-4332-231-2	Board Ass'y (right), side		67	4-332-298-00	Cushion, mirror	
57	X-4332-232-2	Cover Ass'y (left), side		68	4-333-227-00	Holder, R.M.	
58	4-304-494-21	Screw, self-tapping		69	4-333-932-02	Holder, control	
59	4-332-207-00	Net, ornamental; speaker		70	4-333-934-01	Screw, ornamental	
60	4-332-215-00	Mirror, reflection		71	4-843-804-11	Catch	
61	4-332-221-00	Label, hatch switch		72	4-843-805-00	Holder, catch	


A
B
C
D
1
2
3
(3)
106
113
118
101
E-104
115
102
103
104
E-108
120
111
116
E-101
124
E-103
P2.6 x 12
112
121
E-102
E-110
E-107
116
111
112
114
E-111
119
E-109
E-105
117
E-106
123
107
113
105
108
109
115
110
122
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

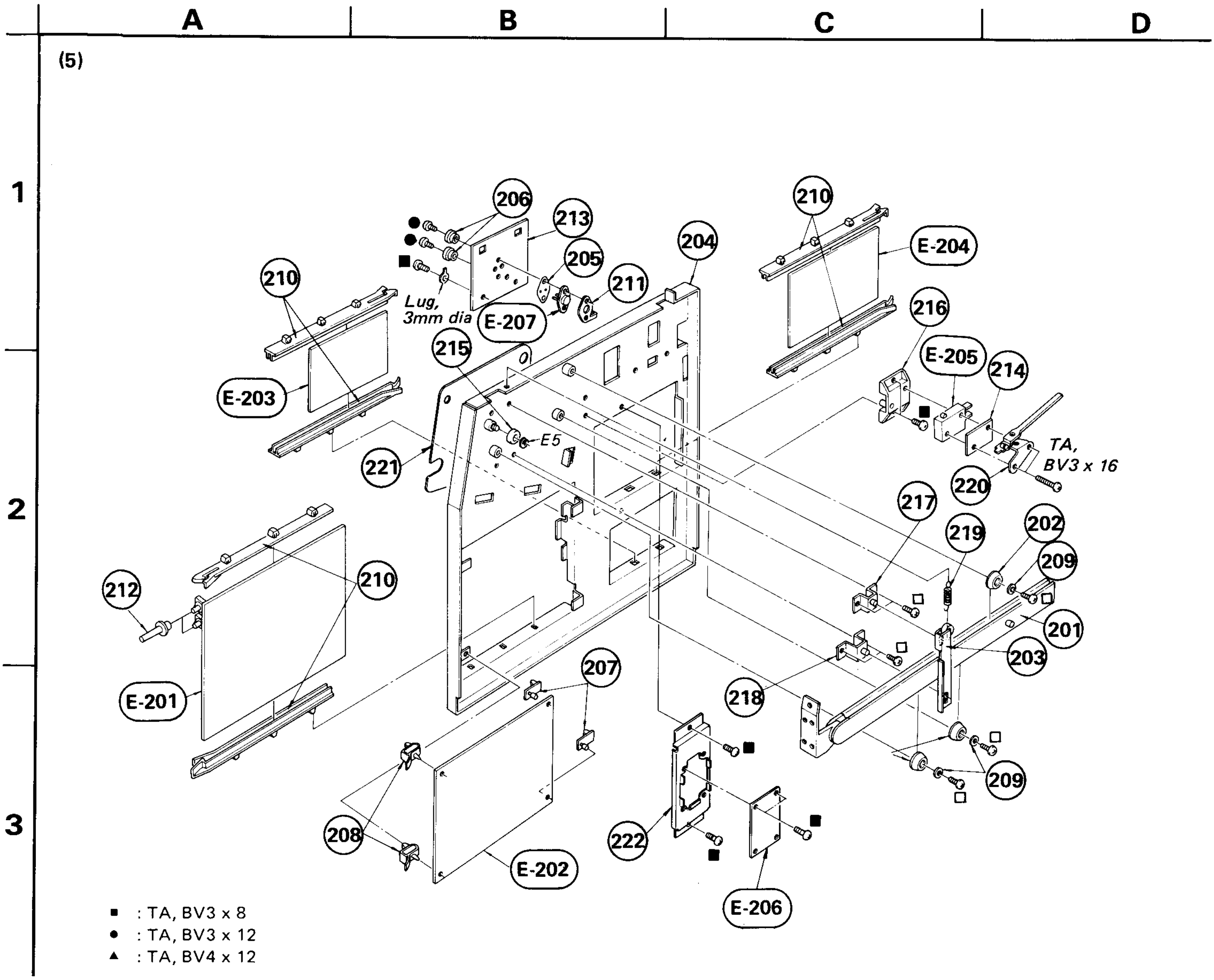
No.		Part No.	Description	Remark
101		X-4332-217-0	Push Button (E) Ass'y	
102		X-4332-218-0	Knob Ass'y	
103		X-4332-219-3	Lid Ass'y, sub control (KP-5010PS)	
104		X-4332-219-4	Lid Ass'y, sub control (KP-7210PS)	
105		X-4332-226-2	Plate (right) Ass'y, side	
106		X-4332-227-2	Plate (left) Ass'y, side	
107		X-4332-237-0	Push Button (A) Ass'y	
108		X-4332-251-0	Panel Complete Ass'y, control (KP-7210PS)	
109		X-4332-251-2	Panel Complete Ass'y, control (KP-5010PS)	
110	♠	3-701-832-00	Hinge, circuit board	
111		3-701-910-00	Screw, special	
112		4-302-404-00	Screw, self-tapping; 4 x 16	
113		4-309-749-00	Screw, self-tapping; 4 x 20	
114	♠	4-314-805-00	Holder, HE board	
115		4-314-871-00	Cushion	
116		4-325-529-00	Terminal, connector	
117		4-325-608-11	Button, sensor	
118	♠	4-332-286-00	Bracket, line switch	
119	♠	4-333-248-00	Bracket, Q	
120		4-333-250-00	Stay, control panel	
121		4-333-258-00	Cover, control rear	
122		4-333-297-00	Stay, reforming	
123	♠	4-333-904-00	Bracket, power switch	
124		4-333-910-00	Board, terminal; video	

(4)


A
B
C
D
1
2
3
E-156
168
169
166
157
151
153
E-153
167
152
158
E-155
164
159
155
161
165
162
157
E5
158
163
E-154
156
160
E-152
E-151
154
158
158

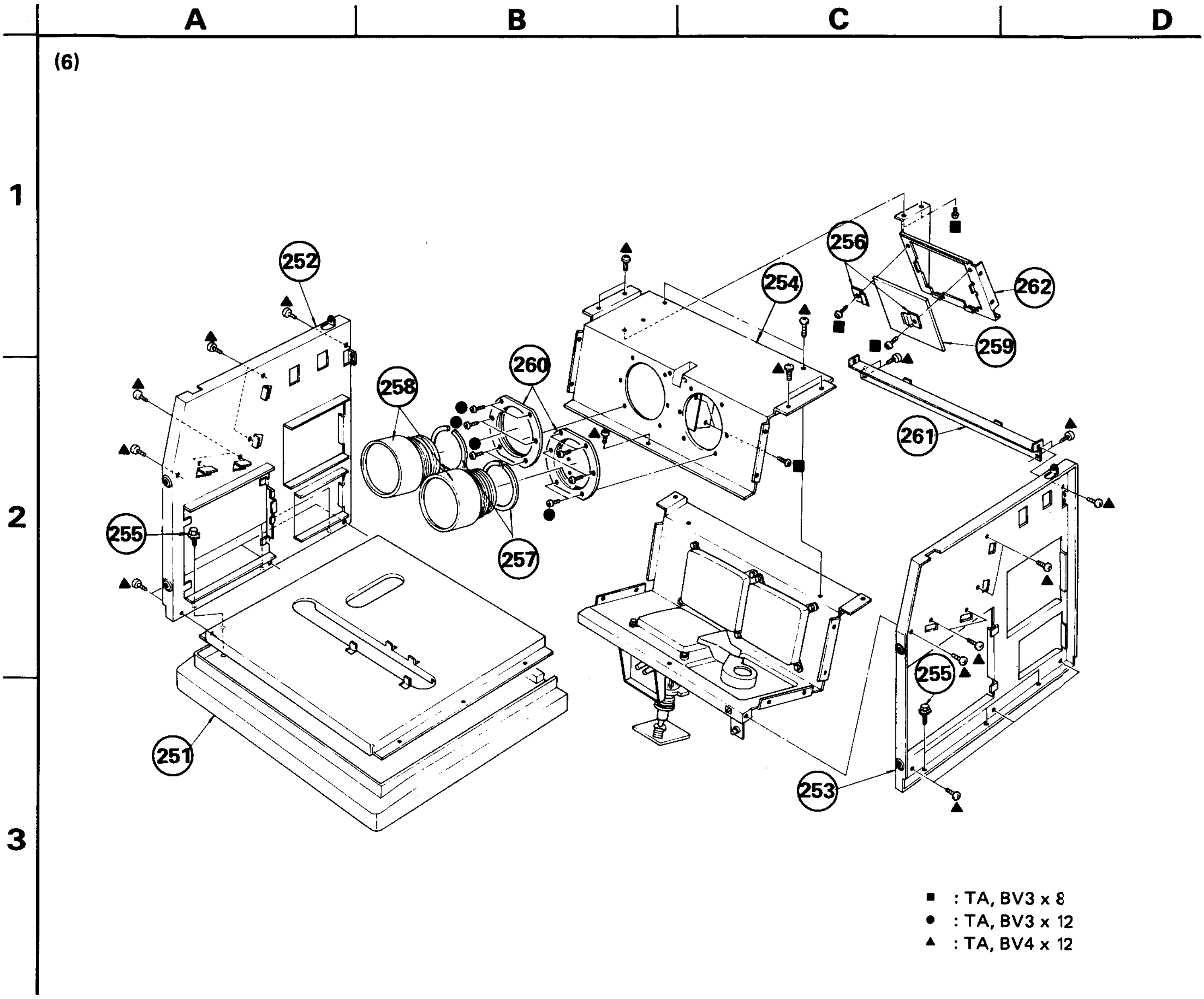
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.		Part No.	Description	Remark
151		A-1450-041-A	Arm (L) Ass'y	
152	♠	X-4332-221-0	Roller Ass'y	
153		X-4332-229-0	Stopper Ass'y (left)	
154	♠	X-4332-233-0	Chassis Ass'y (left), side	
155		3-701-353-00	Spacer, mica	
156		3-701-609-00	Bushing (B)	
157		4-008-449-00	Spacer, bracket	
158	♠	4-024-014-00	Guide, PC board	
159	♠	4-314-938-01	Retainer (TO-3), transistor	
160		4-318-348-00	Knob, V. HOLD	
161	♠	4-332-236-00	Support, heat sink	
162	♠	4-332-240-00	Heat Sink (B)	
163		4-332-277-00	Roller, stopper	
164	♠	4-333-229-00	Bracket (A), guide	
165	♠	4-333-230-00	Bracket (B), guide	
166		4-333-234-00	Spring (B), coil	
167		4-333-252-00	Sheet, side (left)	
168		4-333-288-00	Plate, cushion	
169	♠	4-333-920-02	Bracket, BC	


A
B
C
D
1
2
3
(5)
206
213
205
211
Lug,
3mm dia
E-207
204
210
E-204
216
E-205
214
TA,
BV3 x 16
220
215
E5
210
E-203
221
217
219
202
209
212
210
201
203
E-201
207
218
209
208
222
E-202
E-206

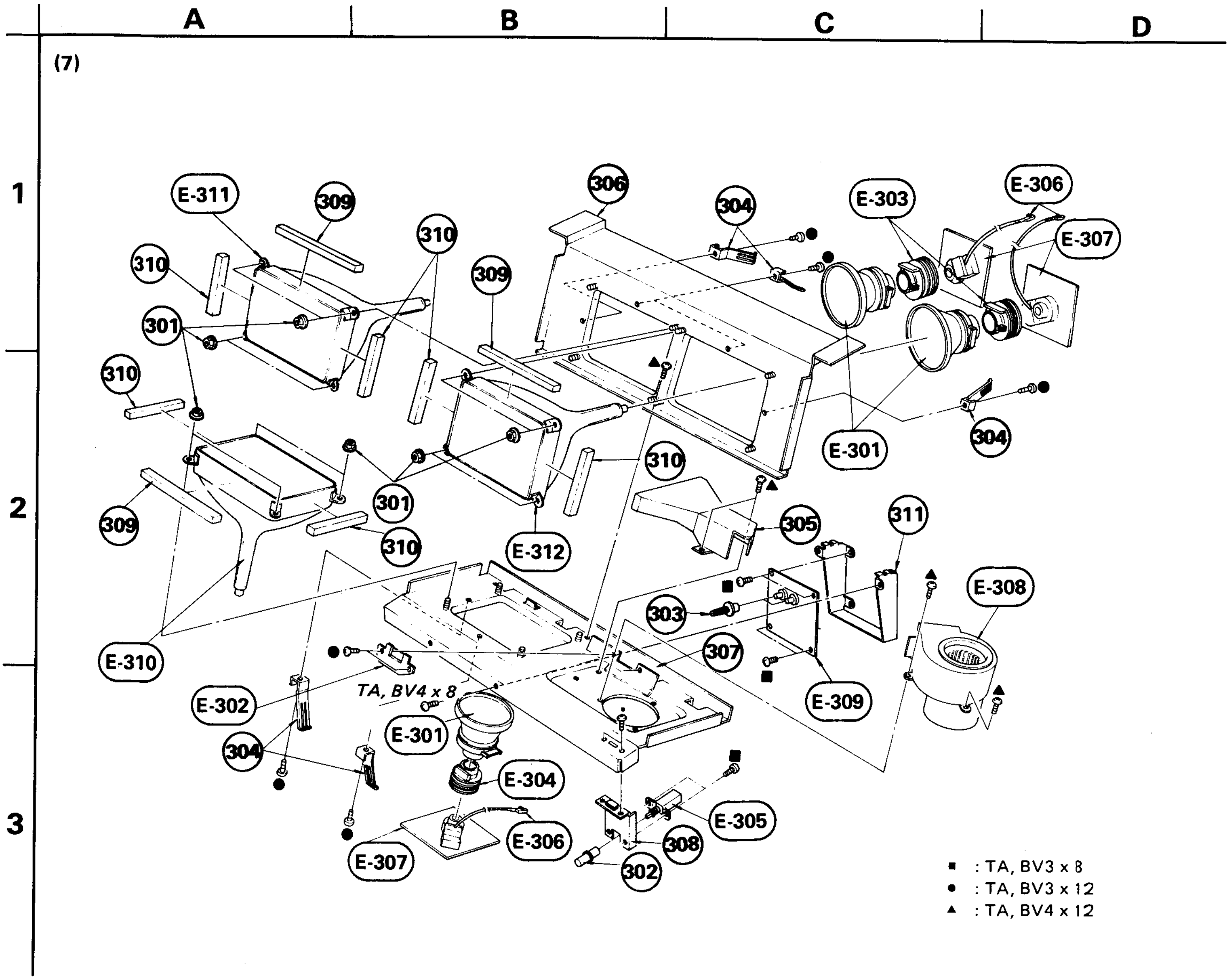
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.		*Part No.*	*Description*	*Remark*
201		A-1450-042-A	Arm (R) Ass'y	
202	♠	X-4332-221-0	Roller Ass'y	
203		X-4332-228-0	Stopper Ass'y (right)	
204	♠	X-4332-234-0	Chassis Ass'y (right), side	
205		2-825-006-00	Spacer, mica	
206		3-701-609-00	Bushing (B)	
207	♠	3-701-832-00	Hinge, circuit board	
208	♠	3-703-141-00	Holder, PCB	
209		4-008-449-00	Spacer, bracket	
210	♠	4-024-014-00	Guide, PC board	
211	♠	4-309-762-00	Retainer (MD-17), transistor	
212		4-318-348-00	Knob, V. HOLD	
213	♠	4-332-206-00	Heat Sink (A)	
214	♠	4-332-216-00	Insulator, mirror switch	
215		4-332-277-00	Roller, stopper	
216		4-332-278-00	Holder, switch; micro	
217	♠	4-333-229-00	Bracket (A), guide	
218	♠	4-333-230-00	Bracket (B), guide	
219		4-333-234-00	Spring (B), coil	
220		4-333-243-00	Actuator, VAM35	
221		4-333-251-00	Sheet, side (right)	
222	♠	4-333-920-00	Bracket, BC	

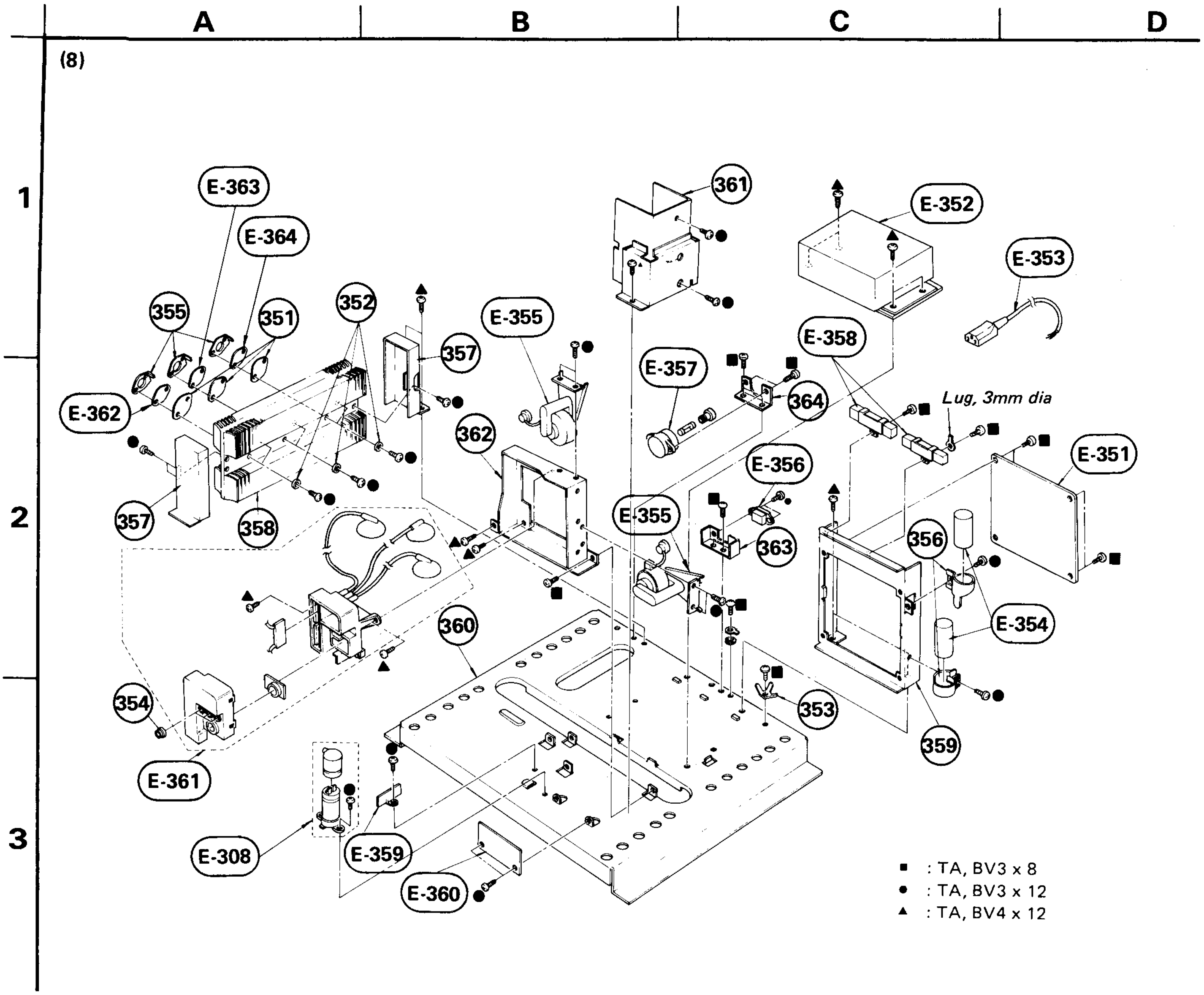

A
B
C
D
1
2
3
(6)
252
256
254
262
259
260
258
261
255
257
255
251
253

■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.		*Part No.*	*Description*	*Remark*
251		X-4332-209-2	Base Ass'y	
252	♠	X-4332-233-0	Chassis Ass'y (left), side	
253	♠	X-4332-234-0	Chassis Ass'y (right), side	
254	♠	X-4332-235-3	Bracket Ass'y, lens	
255		3-703-243-00	Screw, claw	
256	♠	4-332-211-00	Retainer, DM	
257	♠	4-332-212-00	Ring, lens stopper	
258		4-332-237-00	Lens (734)	
259		4-332-238-00	Mirror	
260	♠	4-332-239-00	Holder, lens	
261		4-333-205-00	Stay, rear	
262	♠	4-333-249-00	Bracket, DM	


A
B
C
D
1
2
3
(7)
E-311
309
310
301
306
304
E-303
E-306
E-307
E-301
311
E-308
305
303
307
E-309
E-312
E-310
E-302
TA, BV4 x 8
E-304
E-305
E-306
E-307
308
302
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.		Part No.	Description	Remark
301		4-304-749-00	Nut, flange	
302		4-312-823-11	Knob, auto	
303		4-318-348-00	Knob, V. HOLD	
304		4-332-209-00	Spring	
305	♦	4-332-253-00	Duct, air	
306	♦	4-332-267-00	Bracket (B), CRT	
307	♦	4-332-268-00	Bracket (A), CRT	
308	♦	4-333-226-00	Bracket, hatch switch	
309		4-333-228-00	Cushion, CRT	
310		4-333-228-11	Cushion, CRT	
311	♦	4-333-933-00	Bracket, DE	


A
B
C
D
1
2
3
(8)
E-363
E-364
355
351
352
357
E-355
361
E-352
E-353
E-358
E-357
364
Lug, 3mm dia
E-362
362
E-356
E-351
357
358
E-355
363
356
360
E-354
354
353
359
E-361
E-308
E-359
E-360
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

No.		*Part No.*	*Description*	*Remark*
351		3-701-353-00	Spacer, mica	
352		3-701-609-00	Bushing (B)	
353	♦	4-303-793-00	Terminal, ground	
354	⚠	4-308-858-00	Cap, lead	
355	♦	4-314-938-01	Retainer (TO-3), transistor	
356	♦	4-324-107-00	Holder, electrolytic capacitor	
357	♦	4-332-234-00	Bracket, heat sink	
358	♦	4-332-254-00	Heat Sink (C)	
359	♦	4-332-255-00	Bracket (F)	
360	♦	4-332-266-00	Chassis, bottom	
361	♦	4-332-269-00	Shield, HV	
362	♦	4-332-270-00	Bracket, HV	
363		4-333-903-00	Holder, 3P inlet	
364	♦	4-333-905-00	Holder, socket	

SECTION 7
ELECTRICAL PARTS LIST

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified by ⧗ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- ※ : selected to yield optimum performance.

CAPACITORS

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF, elect : electrolytic

RESISTORS

- All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ

COILS

- All coils are microinductors unless otherwise noted.

BA BOARD

Ref. No.	*Part No.*	*Description*	*Remark*
	♠ A-1130-083-A	BA Board, complete	E-204

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Remark*
C301	1-121-421-00	220 16V elect	
C302	1-121-410-00	47 25V elect	
C303	1-121-398-00	10 25V elect	
C304	1-108-587-00	0.022 mylar	
C305	1-108-421-00	0.01 200V mylar	
C306–308	1-108-587-00	0.022 mylar	
C309	1-108-804-00	0.01 mylar	
C310	1-102-836-00	470p	
C311, 312	1-108-792-00	0.001 mylar	
C313	1-121-404-00	33 25V elect	
C314	1-102-971-00	82p	
C315	1-102-973-00	100p	
C316, 317	1-121-404-00	33 25V elect	
C318	1-121-398-00	10 25V elect	
C319	1-101-888-00	68p	
C320, 321	1-121-391-00	1 50V elect	
C322	1-108-381-00	0.022 100V mylar	
C323	1-108-369-00	0.0022 100V mylar	
C324	1-101-361-00	150p	
C325	1-121-398-00	10 25V elect	
C326	1-102-976-00	180p	
C327	1-102-971-00	82p	
C328	1-108-792-00	0.001 mylar	
C329	1-121-398-00	10 25V elect	
C330	1-101-361-00	150p	
C331	1-123-351-00	0.47 50V elect	
C332	1-121-404-00	33 25V elect	
C333	1-123-351-00	0.47 50V elect	
C334	1-123-252-00	1 160V elect	
C335	1-108-587-00	0.022 mylar	

DIODES

Ref. No.	*Part No.*	*Description*	*Remark*
D301–309	8-719-815-55	1S1555	
⇒D310	8-719-200-02	10E2	

COILS

Ref. No.	*Part No.*	*Description*	*Remark*
L301	1-407-191-XX	470μH	
L302	1-407-167-XX	68μH	

TRANSISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
Q301	8-724-375-01	2SC403C	
⇒Q302–307	8-729-663-47	2SC1364	
⇒Q308	8-729-612-77	2SA1027R	
⇒Q309–315	8-729-663-47	2SC1364	
⇒Q316	8-729-612-77	2SA1027R	

Ref. No.	Part No.	Description	Remark
⇒Q317	8-729-663-47	2SC1364	
⇒Q318	8-729-612-77	2SA1027R	
⇒Q319–325	8-729-663-47	2SC1364	
⇒Q326	8-729-612-77	2SA1027R	
⇒Q327	8-729-663-47	2SC1364	
⇒Q328	8-729-612-77	2SA1027R	

RESISTORS

Ref. No.	Part No.	Description	Remark
R307	1-244-875-00	1.2k ½W carbon	
R346	1-244-869-00	680 ½W carbon	
R386	1-211-490-00	4.7 ¼W carbon (nonflammable)	

BB BOARD

Ref. No.	Part No.	Description	Remark
	♠A-1135-078-A	BB Board, complete	E-202

CAPACITORS

Ref. No.	Part No.	Description	Remark
C3101	1-102-676-00	68p	
C3102	1-101-004-00	0.01	
C3103,3104	1-102-662-00	7p	
C3105	1-102-858-00	10p	
C3106	1-102-882-00	4p	
C3107	1-101-004-00	0.01	
C3108	1-123-351-00	0.47 50V elect	
C3109	1-101-880-00	47p	
C3110	1-101-004-00	0.01	
C3111	1-123-351-00	0.47 50V elect	
C3112	1-102-965-00	390p	
C3113	1-101-004-00	0.01	
C3114	1-102-516-00	27p	
C3115,3116	1-102-529-00	100p	
C3117	1-123-318-00	33 16V elect	
C3118	1-102-531-00	150p	
C3119	1-102-516-00	27p	
C3120,3121	1-102-529-00	100p	
C3122	1-102-531-00	150p	
C3123	1-102-973-00	100p	
C3124	1-123-316-00	10 16V elect	
C3125–C3127	1-102-888-00	150p	
C3128,3129	1-101-004-00	0.01	
C3130	1-123-351-00	0.47 50V elect	
C3131	1-101-004-00	0.01	
C3132	1-123-316-00	10 16V elect	
C3133	1-123-355-00	4.7 50V elect	
C3134	1-101-004-00	0.01	
C3135,3136	1-102-820-00	330p	
C3137,3138	1-101-004-00	0.01	
C3139	1-101-006-00	0.047	
C3140–C3142	1-101-004-00	0.01	
C3143	1-102-850-00	56p	
C3144	1-101-004-00	0.01	
C3145	1-123-317-00	22 16V elect	
C3146	1-123-355-00	4.7 50V elect	
C3147	1-123-316-00	10 16V elect	
C3148	1-123-352-00	1 50V elect	
C3149	1-123-355-00	4.7 50V elect	
C3150	1-123-316-00	10 16V elect	
C3151	1-101-006-00	0.047	
C3152–C3154	1-102-888-00	150p	
C3155	1-101-004-00	0.01	
C3156	1-102-973-00	100p	
C3157,3158	1-101-004-00	0.01	
C3159,3160	1-123-352-00	1 50V elect	
C3161	1-102-959-00	22p	
C3162	1-101-884-00	56p	
C3163	1-108-365-00	0.001 100V mylar	
C3164,3165	1-123-316-00	10 16V elect	
C3166	1-108-365-00	0.001 100V mylar	
C3167	1-101-004-00	0.01	
C3168	1-123-316-00	10 16V elect	
C3169	1-101-884-00	56p	
C3170	1-102-959-00	22p	
C3171	1-123-351-00	0.47 50V elect	

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Ref. No.	Part No.	Description			Remark
C3172	1-102-961-00	27p			
C3173	1-123-352-00	1	50V	elect	
C3174	1-101-004-00	0.01			
C3175	1-102-527-00	82p			
C3176	1-102-510-00	12p			
C3177	1-101-004-00	0.01			
C3178	1-101-888-00	68p			
C3179	1-102-074-00	0.001			
C3180	1-102-883-00	27p			
C3181	1-102-516-00	27p			
C3182	1-123-329-00	10	25V	elect	
C3183	1-161-023-00	0.068			
C3184	1-108-638-00	0.1	100V	mylar	
C3185	1-123-316-00	10	16V	elect	
C3186	1-108-638-00	0.1	100V	mylar	
C3187	1-123-316-00	10	16V	elect	
C3188	1-123-317-00	22	16V	elect	
C3189	1-123-351-00	0.47	50V	elect	
C3190	1-102-973-00	100p			
C3191	1-102-816-00	120p			
C3192	1-102-963-00	33p			
C3193	1-123-329-00	10	25V	elect	
C3194	1-123-316-00	10	16V	elect	
C3195	1-101-804-00	10p	500V		
C3196	1-123-319-00	47	16V	elect	
C3197	1-123-333-00	100	25V	elect	
C3198	1-161-202-00	0.01			
C3199	1-102-963-00	33p			
C3200	1-123-316-00	10	16V	elect	
C3201	1-123-351-00	0.47	50V	elect	
C3202	1-102-824-00	470p			
C3203	1-123-351-00	0.47	50V	elect	
C3204	1-102-824-00	470p			
C3205	1-123-351-00	0.47	50V	elect	
C3206	1-102-824-00	470p			
C3207	1-123-332-00	47	25V	elect	
C3208,3209	1-102-816-00	120p			
C3210	1-123-331-00	33	25V	elect	
C3211	1-102-963-00	33p			

Ref. No.	Part No.	Description	Remark
C3212	1-101-006-00	0.047	
CV3101	1-141-147-XX	Trimmer, 15p	

DIODES

Ref. No.	Part No.	Description	Remark
D3101–D3108	8-719-815-55	1S1555	
⇒D3109	8-719-320-11	HF1A	
D3110–D3113	8-719-815-55	1S1555	
DL3101	1-415-101-00	Delay Line	
DL3102	1-415-122-00	Delay Line, 1H DELAY	

ICS

Ref. No.	Part No.	Description	Remark
IC3101	8-759-906-40	TCA640	
IC3102	8-759-906-50	TCA650	
IC3103	8-759-905-40	TBA540	
IC3104	8-759-906-60	TCA660B	

COILS

Ref. No.	Part No.	Description	Remark
L3101	1-407-163-XX	33μH	
L3102	1-407-189-XX	8.2μH	
L3103	1-407-164-XX	39μH	
L3104,3105	1-407-172-XX	180μH	
L3106	1-407-696-00	18μH	

TRANSISTORS

Ref. No.	Part No.	Description	Remark
⇒Q3101–⇒Q3110	8-729-663-47	2SC1364	
⇒Q3111	8-729-612-77	2SA1027R	
⇒Q3112,3113	8-729-663-47	2SC1364	
⇒Q3114,3115	8-729-612-77	2SA1027R	
⇒Q3116–⇒Q3118	8-729-663-47	2SC1364	
⇒Q3119,3120	8-729-612-77	2SA1027R	
Q3121	8-724-375-01	2SC403C	
⇒Q3122,3123	8-729-663-47	2SC1364	
Q3124	8-760-335-10	2SC1474	
⇒Q3125	8-729-612-77	2SA1027R	

Ref. No.	*Part No.*	*Description*	*Remark*
Q3126	8-760-413-10	2SC1475	
Q3127	8-724-375-01	2SC403C	
⇒Q3128	8-729-612-77	2SA1027R	
Q3129	8-760-413-10	2SC1475	
Q3130	8-724-375-01	2SC403C	
⇒Q3131	8-729-612-77	2SA1027R	
Q3132	8-760-413-10	2SC1475	
Q3133	8-724-375-01	2SC403C	
⇒Q3134– ⇒Q3137	8-729-663-47	2SC1364	

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R3223	1-212-360-00	1 1W metal oxide (nonflammable)	
R3224	1-206-475-00	33 2W metal oxide (nonflammable)	
R3233	1-211-929-00	82 1/8W carbon (nonflammable)	
R3236	1-213-135-00	220 1W metal oxide (nonflammable)	
R3246	1-211-929-00	82 1/8W carbon (nonflammable)	
R3247	1-213-135-00	220 1W metal oxide (nonflammable)	
R3257	1-246-988-00	56 1/8W carbon (nonflammable)	
R3258	1-213-133-00	150 1W metal oxide (nonflammable)	
RV3101	1-224-641-XX	470, adjustable; BIAS	
RV3102	1-224-643-XX	2.2k, adjustable; R-Y LEVEL	
RV3103	1-224-643-XX	2.2k, adjustable; SMB	
RV3104	1-224-642-XX	1k, adjustable; U. PHASE	
RV3105	1-224-645-XX	10k, adjustable; KILL	
RV3106	1-224-644-XX	4.7k, adjustable; ACC	
RV3107	1-224-641-XX	470, adjustable; BKG	
RV3108	1-221-970-XX	500, adjustable; R. DRIVE	
RV3109	1-221-970-XX	500, adjustable; G. DRIVE	
RV3110	1-221-970-XX	500, adjustable; B. DRIVE	

TRANSFORMERS

Ref. No.	*Part No.*	*Description*	*Remark*
T3101	1-425-784-00	T.O.T	
T3102,3103	1-409-193-00	3.58MHz Trap	
T3104	1-404-076-00	R-Y Discri	
T3105	1-404-076-21	B-Y Discri	
T3106	1-404-075-00	BELL	
T3107	1-425-928-00	DAT	
T3108	1-404-075-00	IDT	
T3109,3110	1-425-970-00	CWT	
T3111	1-403-843-00	SIFT-3, V-PHASE	
TH3101	1-800-198-XX	Thermister, S-1000	
X3101	1-527-274-00	Crystal Oscillator	

BC BOARD

Ref. No.	*Part No.*	*Description*	*Remark*
	♠A-1130-094-A	BC Board, complete	E-156

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Remark*
C9501	1-102-949-00	12p	
C9502– C9504	1-108-381-00	0.022 100V mylar	
C9505	1-123-316-00	10 16V elect	
C9506	1-108-381-00	0.022 100V mylar	
C9507,9508	1-123-352-00	1 50V elect	
C9509	1-123-316-00	10 16V elect	
C9510	1-108-381-00	0.022 100V mylar	
C9511	1-123-331-00	33 25V elect	

DIODES

Ref. No.	*Part No.*	*Description*	*Remark*
D9501,9502	8-719-815-55	1S1555	

COIL

Ref. No.	*Part No.*	*Description*	*Remark*
L9501	1-407-240-00	Inductor, variable	

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	*Part No.*	*Description*	*Remark*

TRANSISTORS

Ref. No.	Part No.	Description	Remark
Q9501–Q9503	8-729-663-47	2SC1364	
Q9504	8-729-612-77	2SA1027R	

C BOARD

Ref. No.	Part No.	Description	Remark
	♠A-1330-169-A	C Board, complete	E-307

CAPACITORS

Ref. No.	Part No.	Description	Remark
C701	1-123-028-00	2.2 350V elect	
C702	1-121-963-00	33 25V elect	
C703	1-102-267-00	0.0068 500V	
C704	1-102-155-00	330p 2kV	
C705	1-129-924-00	0.016 1kV film	
C706	1-102-155-00	330p 2kV	

COILS

Ref. No.	Part No.	Description	Remark
L701	1-407-492-00	1mH	
L702, 703	1-407-364-00	3.3μH	
NL701	1-519-013-00	Discharge Tube	

TRANSISTOR

Ref. No.	Part No.	Description	Remark
Q701	8-729-372-31	2SC1723	

RESISTOR

Ref. No.	Part No.	Description	Remark
R701	1-202-615-00	56k ½W composition	
R702	1-202-631-00	270k ½W composition	
R703	1-244-921-00	100k ½W carbon	
R704	1-244-923-00	120k ½W carbon	
R706	1-206-753-00	15k 3W metal oxide (nonflammable)	
R708	1-202-573-00	1k ½W composition	
R709	1-202-629-00	220k ½W composition	
R710	1-202-573-00	1k ½W composition	
R711	1-202-639-00	560k ½W composition	
R712	1-202-583-00	2.7k ½W composition	
R713	1-202-615-00	56k ½W composition	
R714	1-247-033-00	100 1/8W carbon (nonflammable)	
	1-526-607-00	Socket, picture tube	

D BOARD

Ref. No.	Part No.	Description	Remark
	♠A-1340-270-A	D Board, complete	E-201

CAPACITORS

Ref. No.	Part No.	Description	Remark
C5501	1-121-733-00	470 25V elect	
C5502,5503	1-121-999-00	10 160V elect	
C5504	1-121-245-00	1000 16V elect	
C5505	1-121-733-00	470 25V elect	
C5507	1-121-398-00	10 25V elect	
C5508	1-102-973-00	100p	
C5509	1-123-116-00	1 160V elect	
C5510	1-108-591-00	0.033 mylar	
C5511	1-121-391-00	1 50V elect	
C5512,5513	1-121-810-00	470 50V elect	
C5514	1-131-236-00	1 25V tantalum	
C5515	1-121-391-00	1 50V elect	
C5516	1-121-396-00	4.7 50V elect	
C5517	1-102-973-00	100p	
C5518	1-123-116-00	1 160V elect	
C5519	1-108-591-00	0.033 mylar	
C5520	1-121-391-00	1 50V elect	
C5521,5522	1-121-810-00	470 50V elect	
C5523	1-131-236-00	1 25V elect	
C5524	1-121-391-00	1 50V elect	
C5525	1-121-396-00	4.7 50V elect	
C5526	1-102-973-00	100p	
C5527	1-123-116-00	1 160V elect	
C5528	1-108-591-00	0.033 mylar	
C5529	1-121-391-00	1 50V elect	

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Ref. No.	*Part No.*	*Description*			*Remark*
C5530,5531	1-121-810-00	470	50V	elect	
C5532	1-131-236-00	1	25V	elect	
C5533	1-121-391-00	1	50V	elect	
C5534	1-121-396-00	4.7	50V	elect	
C5535	1-121-416-00	100	25V	elect	
C5536,5537	1-108-571-00	0.0047		mylar	
C5538	1-108-563-00	0.0022		mylar	
C5539	1-102-973-00	100p			
C5540,5541	1-131-207-00	4.7	25V	elect	
C5543,5544	1-121-392-00	3.3	25V	elect	
C5545	1-108-792-00	0.001		mylar	
C5546	1-121-416-00	100	25V	elect	
C5547	1-108-792-00	0.001		mylar	
C5548	1-108-587-00	0.022		mylar	
C5550–C5552	1-108-425-00	0.022	200V	mylar	

DIODES

D5501–D5505	8-719-815-55	1S1555	
⇒D5506	8-719-931-25	EQB01-25	
⇒D5507	8-719-931-08	EQB01-08	
D5508–D5512	8-719-815-55	1S1555	
⇒D5513	8-719-931-25	EQB01-25	
⇒D5514	8-719-931-08	EQB01-08	
D5515–D5519	8-719-815-55	1S1555	
⇒D5520	8-719-931-25	EQB01-25	
⇒D5521	8-719-931-08	EQB01-08	
⇒D5522	8-719-931-05	EQB01-05	
⇒D5523	8-719-931-06	EQB01-06	
D5524	8-719-815-55	1S1555	
⇒D5525	8-719-900-93	V09C	
D5526	8-719-815-55	1S1555	

COIL

L5501	1-407-169-XX	100μH	

TRANSISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
⇒Q5501,5502	8-729-612-77	1SA1027R	
Q5503	8-765-170-01	2SC1962	
Q5504	8-729-307-82	2SD478	
Q5505	8-729-326-82	2SB568	
⇒Q5506	8-729-612-77	2SA1027R	
⇒Q5507,5508	8-729-663-47	2SC1364	
⇒Q5509	8-729-612-77	2SA1027R	
Q5510	8-760-413-10	2SC1475	
⇒Q5511,5512	8-729-612-77	2SA1027R	
Q5513	8-765-170-01	2SC1962	
Q5514	8-729-307-82	2SD478	
Q5515	8-729-326-82	2SB568	
⇒Q5516	8-729-612-77	2SA1027R	
⇒Q5517,5518	8-729-663-47	2SC1364	
⇒Q5519	8-729-612-77	2SA1027R	
Q5520	8-760-413-10	2SC1475	
⇒Q5521,5522	8-729-612-77	2SA1027R	
Q5523	8-765-170-01	2SC1962	
Q5524	8-729-307-82	2SD478	
Q5525	8-729-326-82	2SB568	
⇒Q5526	8-729-612-77	2SA1027R	
⇒Q5527,5528	8-729-663-47	2SC1364	
⇒Q5529	8-729-612-77	2SA1027R	
Q5530	8-760-413-10	2SC1475	
⇒Q5531,5532	8-729-663-47	2SC1364	
⇒Q5533	8-729-663-47	2SC1364	
⇒Q5534–⇒Q5536	8-729-612-77	2SA1027R	
⇒Q5539	8-729-663-47	2SC1364	
⇒Q5540	8-760-413-10	2SC1475	
⇒Q5541	8-729-612-77	2SA1027R	
Q5542	8-760-413-10	2SC1475	
Q5543–Q5545	8-729-663-47	2SC1364	
Q5546	8-760-413-10	2SC1475	

RESISTORS

Ref. No.	Part No.	Description	Remark
R5501	1-214-138-00	1.8k 1% metal oxide	
R5502	1-247-031-00	27 1/8W carbon (nonflammable)	
R5503	1-214-150-00	5.6k 1% metal oxide	
R5504	1-247-031-00	27 1/8W carbon (nonflammable)	
R5505,5506	1-214-118-00	270 1% metal oxide	
R5507	1-214-158-00	12k 1% metal oxide	
R5508	1-214-171-00	43k 1% metal oxide	
R5509,5510	1-244-923-00	120k ½W carbon	
R5512	1-246-994-00	680 1/8W carbon (nonflammable)	
R5515,5516	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5521	1-213-154-00	8.2k 1W metal oxide (nonflammable)	
R5525	1-214-093-00	24 1% metal oxide	
R5526	1-214-094-00	27 1% metal oxide	
R5527,5528	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5532,5533	1-214-123-00	430 1% metal oxide	
R5535	1-214-138-00	1.8k 1% metal oxide	
R5536	1-247-031-00	27 1/8W carbon (nonflammable)	
R5537	1-214-150-00	5.6k 1% metal oxide	
R5538	1-247-037-00	27 1/8W carbon (nonflammable)	
R5539	1-214-158-00	12k 1% metal oxide	
R5540	1-247-031-00	27 1/8W carbon (nonflammable)	
R5541	1-214-171-00	43k 1% metal oxide	
R5542,5543	1-244-923-00	120k ½W carbon	
R5545	1-246-994-00	680 1/8W carbon (nonflammable)	
R5548,5549	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5554	1-213-154-00	8.2k 1W metal oxide (nonflammable)	
R5558	1-214-093-00	24 1% metal oxide	

Ref. No.	Part No.	Description	Remark
R5559	1-214-094-00	27 1% metal oxide	
R5560,5561	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5565,5566	1-214-123-00	430 1% metal oxide	
R5568	1-214-138-00	1.8k 1% metal oxide	
R5569	1-247-031-00	27 1/8W carbon (nonflammable)	
R5570	1-214-150-00	5.6k 1% metal oxide	
R5571	1-247-031-00	27 1/8W carbon (nonflammable)	
R5572	1-214-158-00	12k 1% metal oxide	
R5573	1-247-031-00	27 1/8W carbon (nonflammable)	
R5574	1-214-171-00	43k 1% metal oxide	
R5575,5576	1-244-923-00	120k ½W carbon	
R5578	1-246-994-00	680 1/8W carbon (nonflammable)	
R5581,5582	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5587	1-213-154-00	8.2k 1W metal oxide (nonflammable)	
R5591	1-214-093-00	24 1% metal oxide	
R5592	1-214-094-00	27 1% metal oxide	
R5593,5594	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5598,5599	1-214-123-00	430 1% metal oxide	
R5601,5602	1-206-743-00	5.6k 3W metal oxide (nonflammable)	
R5603,5604	1-247-031-00	27 1/8W carbon (nonflammable)	
R5615	1-214-148-00	4.7k 1% metal oxide	
R5616	1-214-154-00	8.2k 1% metal oxide	
R5617,5618	1-214-156-00	10k 1% metal oxide	
R5621	1-244-923-00	120k ½W carbon	
R5622	1-244-927-00	180k ½W carbon	
R5623	1-244-857-00	220 ½W carbon	
R5624	1-214-158-00	12k metal oxide	
R5626	1-214-158-00	12k metal oxide	
R5627	1-214-146-00	3.9k metal oxide	
R5637	1-244-877-00	1.5k ½W carbon	

Ref. No.	*Part No.*	*Description*	*Remark*
R5638	1-206-656-00	470 2W metal oxide (nonflammable)	
R5639	1-247-031-00	27 1/8W carbon (nonflammable)	
R5646	1-206-656-00	470 2W metal oxide (nonflammable)	
R5647	1-247-031-00	27 1/8W carbon (nonflammable)	
RV5501	1-224-641-00	470, adjustable; V. SIZE (R)	
RV5502	1-224-644-00	4.7k, adjustable; V. CENT (R)	
RV5503	1-221-970-XX	500, adjustable; V. SIZE (G)	
RV5504	1-221-970-XX	500, adjustable; V. LIN (G)	
RV5505	1-224-711-00	1k, adjustable; V. SKEW (G)	
RV5506	1-226-077-00	5k, variable; V. CENT (G)	
RV5507	1-221-970-XX	500, adjustable; V. SIZE (B)	
RV5508	1-221-970-XX	500, adjustable; V. LIN (B)	
RV5509	1-224-711-00	1k, adjustable; V. SKEW (B)	
RV5510	1-226-077-00	5k, variable; V. CENT (B)	

DE BOARD

	♦A-1340-327-A	DE Board, complete	E-309

CAPACITORS

C502–505	1-123-329-00	10 25V elect	
C506	1-108-369-00	0.0022 100V mylar	
C507	1-108-379-00	0.015 100V mylar	
C551	1-123-352-00	1 50V elect	
C552	1-108-383-00	0.033 100V mylar	
C553, 554	1-123-352-00	1 50V elect	
C555	1-102-820-00	330p	
C556, 557	1-123-252-00	1 160V elect	
C558	1-108-427-00	0.033 200V mylar	
C559, 560	1-123-352-00	1 50V elect	
C561	1-121-757-00	33 160V elect	
C562	1-123-336-00	470 25V elect	

DIODE

Ref. No.	*Part No.*	*Description*	*Remark*
D551	8-719-815-55	1S1555	

TRANSISTORS

Q501	8-729-663-47	2SC1364	
⇒Q502	8-729-612-77	2SA1027R	
Q503	8-729-307-82	2SD478	
Q551	8-729-663-47	2SC1364	
⇒Q552, 553	8-729-612-77	2SA1027R	
⇒Q554	8-765-170-01	2SC1962	
Q555	8-729-307-82	2SD478	
Q556	8-729-326-82	2SB568	
Q557	8-729-663-47	2SC1364	

RESISTORS

R509	1-214-172-00	47k film	
R510	1-214-156-00	10k film	
R514	1-213-130-00	82 1W metal oxide (nonflammable)	
R551	1-244-903-00	18k ½W carbon	
R558	1-214-598-00	56k 1W metal oxide (nonflammable)	
R560	1-246-994-00	680 1/8W carbon (nonflammable)	
R561	1-206-753-00	15k 3W metal oxide (nonflammable)	
R562	1-244-918-00	75k ½W carbon	
R563	1-244-909-00	33k ½W carbon	
R564	1-244-893-00	6.8k ½W carbon	
R565	1-214-084-00	10 film	
R566	1-246-993-00	470 1/8W carbon (nonflammable)	
RV501	1-224-646-XX	22k, adjustable; H SUB BOW (G)	
RV502	1-224-646-XX	22k, adjustable; H SUB SKEW (G)	
RV551	1-224-018-00	20k, variable; V SKEW (B)	
RV552	1-224-645-XX	10k, adjustable; V BOW (B)	
RV553	1-224-018-00	20k, variable; H SKEW (B)	

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	*Part No.*	*Description*	*Remark*
T501	1-421-371-00	Transformer, ferrite	

E BOARD

	♦A-1340-271-A	E Board, complete	E-151

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Remark*
C5301	1-121-738-00	10 50V elect	
C5302	1-121-411-00	47 50V elect	
C5303	1-123-116-00	1 160V elect	
C5304	1-130-121-00	0.0045 1.5kV film	
C5305	1-129-748-00	0.056 400V film	
C5305	1-129-883-00	0.56 400V film	
C5306	1-108-431-00	0.068 200V mylar	
C5306	1-108-690-00	0.0068 200V mylar	
C5307	1-121-736-00	1000 10V elect	
C5308	1-121-395-00	4.7 25V elect	
C5309	1-121-391-00	1 50V elect	
C5310	1-121-246-00	4.7 160V elect	
C5311	1-108-377-00	0.01 100V mylar	
C5312,5313	1-121-414-00	100 10V elect	
C5314	1-121-757-00	33 160V elect	
C5315	1-121-738-00	10 50V elect	
C5316	1-121-411-00	47 50V elect	
C5317	1-123-116-00	1 160V elect	
C5318	1-130-121-00	0.0045 1.5kV film	
C5319	1-129-748-00	0.056 400V film	
C5319	1-129-883-00	0.56 400V film	
C5320	1-108-431-00	0.068 200V mylar	
C5320	1-108-690-00	0.0068 200V mylar	
C5321	1-121-736-00	1000 10V elect	
C5322	1-121-395-00	4.7 25V elect	
C5323	1-121-246-00	4.7 160V elect	
C5324	1-108-377-00	0.01 100V mylar	
C5325,5326	1-121-414-00	100 10V elect	
C5327	1-121-738-00	10 50V elect	
C5328	1-121-411-00	47 50V elect	
C5329	1-123-116-00	1 160V elect	
C5330	1-130-121-00	0.0045 1.5kV film	
C5331	1-129-748-00	0.056 400V film	
C5331	1-129-883-00	0.56 400V polypropylene film	
C5332	1-108-431-00	0.068 200V mylar	
C5332	1-108-690-00	0.0068 200V mylar	
C5333	1-121-736-00	1000 10V elect	
C5334	1-121-395-00	4.7 25V elect	
C5335	1-121-246-00	4.7 160V elect	
C5336	1-108-377-00	0.01 100V mylar	
C5337,5338	1-121-414-00	100 10V elect	
C5339–C5341	1-121-422-00	220 25V elect	
C5342–C5344	1-106-224-00	0.15 100V mylar	
C5345	1-121-757-00	33 160V elect	
C5346,5347	1-130-121-00	0.0045 1.5kV film	
C5348	1-123-022-00	22 350V elect	

DIODES

Ref. No.	*Part No.*	*Description*	*Remark*
⇒D5301	8-719-320-11	HF1A	
⇒D5302	8-719-305-15	GH3F	
D5303	8-719-303-40	S34	
D5304,5305	8-719-815-55	1S1555	
⇒D5306,5307	8-719-815-85	1S1585	
⇒D5308	8-719-320-11	HF1A	
⇒D5309	8-719-305-15	GH3F	
D5310	8-719-303-40	S34	
D5311,5312	8-719-815-55	1S1555	
⇒D5313,5314	8-719-815-85	1S1585	
⇒D5315	8-719-320-11	HF1A	
⇒D5316	8-719-305-15	GH3F	
D5317	8-719-303-40	S34	
D5318,5319	8-719-815-55	1S1555	
⇒D5320,5321	8-719-815-85	1S1585	
D5322	8-719-901-19	V11N	
⇒D5323	8-719-305-15	GH3F	
D5324	8-719-901-19	V11N	

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Ref. No.	*Part No.*	*Description*	*Remark*
F5301	⚠1-532-215-00	Fuse, 0.8AT; 125V	

COILS

Ref. No.	*Part No.*	*Description*	*Remark*
L5301–L5303	1-407-500-00	4.7mH	
L5304–L5306	1-459-075-00	3.3mH	

TRANSISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
Q5301	8-729-309-06	2SC1890A	
Q5302	8-729-307-82	2SD478	
⇒Q5303	8-729-663-47	2SC1364	
Q5304	8-729-309-06	2SC1890A	
⇒Q5305	8-729-612-77	2SA1027R	
⇒Q5306,5307	8-729-663-47	2SC1364	
⇒Q5308	8-729-612-77	2SA1027R	
Q5309	8-760-413-10	2SC1475	
Q5310	8-729-468-43	2SA684	
Q5311	8-729-309-06	2SC1890A	
Q5312	8-729-307-82	2SD478	
⇒Q5313	8-729-663-47	2SC1364	
⇒Q5314	8-729-309-06	2SC1890A	
⇒Q5315,5316	8-729-663-47	2SC1364	
⇒Q5317	8-729-612-77	2SA1027R	
Q5318	8-760-413-10	2SC1475	
Q5319	8-729-468-43	2SA684	
Q5320	8-729-309-06	2SC1890A	
⇒Q5321	8-729-663-47	2SC1364	
Q5322	8-729-307-82	2SD478	
Q5323	8-729-309-06	2SC1890A	
⇒Q5324,5325	8-729-663-47	2SC1364	
⇒Q5326	8-729-612-77	2SA1027R	
Q5327	8-760-413-10	2SC1475	
Q5328	8-729-468-43	2SA684	

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R5310	1-211-475-00	10k 1/8W carbon (nonflammable)	
R5314	1-247-040-00	1k 1/8W carbon (nonflammable)	
R5315	1-206-656-00	470 2W metal oxide (nonflammable)	
R5327	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
R5328,5329	1-214-158-00	12k 1% film	
R5336	1-244-867-00	560 ½W carbon	
R5337	1-206-465-00	12 2W metal oxide (nonflammable)	
R5340	1-206-465-00	12 2W metal oxide (nonflammable)	
R5341	1-214-084-00	10 1% film	
R5352	1-211-475-00	10k 1/8W carbon (nonflammable)	
R5356	1-247-040-00	1k 1/8W carbon (nonflammable)	
R5357	1-206-656-00	470 2W metal oxide (nonflammable)	
R5369	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
R5370,5371	1-214-158-00	12k 1% film	
R5378	1-244-867-00	560 ½W carbon	
R5379	1-206-465-00	12 2W metal oxide (nonflammable)	
R5382	1-214-084-00	10 1% film	
R5383	1-206-465-00	12 2W metal oxide (nonflammable)	
R5393	1-211-475-00	10k 1/8W carbon (nonflammable)	
R5397	1-247-040-00	1k 1/8W carbon (nonflammable)	
R5398	1-206-656-00	470 2W metal oxide (nonflammable)	
R5409	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
R5410,5411	1-214-158-00	12k 1% film	
R5418	1-244-867-00	560 ½W carbon	
R5419	1-206-465-00	12 2W metal oxide (nonflammable)	
R5422	1-206-465-00	12 2W metal oxide (nonflammable)	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*	*Remark*
R5423	1-214-084-00	10 1% film	
R5426	1-206-463-00	10 2W metal oxide (nonflammable)	
R5427	1-206-703-00	120 3W metal oxide (nonflammable)	
R5429	1-206-531-00	68 3W metal oxide (nonflammable)	
R5430	1-206-914-00	82 3W metal oxide (nonflammable)	
R5431	1-206-531-00	68 3W metal oxide (nonflammable)	
R5432	1-212-361-00	1.2 1W metal oxide (nonflammable)	
R5433	1-211-630-00	470 ½W carbon (nonflammable)	
R5434	1-206-703-00	120 3W metal oxide (nonflammable)	
RV5301	1-222-512-00	10k, adjustable; H KEYS (G)	
RV5302	1-222-807-XX	20k, adjustable; H SIZE (G)	
RV5303	1-222-807-XX	20k, adjustable; H SKEW (G)	
RV5304	1-224-645-XX	10k, adjustable; H BOW (G)	
RV5305	1-226-077-00	5k, variable; H CENT (G)	
RV5306	1-224-646-XX	22k, adjustable; H. SIZE (R)	
RV5307	1-224-646-XX	22k, adjustable; H. SKEW (R)	
RV5308	1-224-644-XX	4.7k, adjustable; H. CENT (R)	
RV5309	1-222-512-00	10k, adjustable; H. KEYS (B)	
RV5310	1-222-807-XX	20k, adjustable; H. SIZE (B)	
RV5312	1-224-645-XX	10k, adjustable; H. BOW (B)	
RV5313	1-226-077-00	5k, variable; H. CENT (B)	
RV5314	1-223-067-00	120, adjustable; H. LIN (B)	
RV5315	1-223-021-00	1k, adjustable; H. LIN (G)	

TRANSFORMERS

T5301	1-439-137-00	HOT-1	
T5302	1-439-097-00	HOT-4	
T5303	1-439-230-00	LOT-1	
T5304	1-439-137-00	HOT-2	
T5305	1-439-097-00	HOT-5	
T5306	1-439-230-00	LOT-2	
T5307	1-439-137-00	HOT-3	
T5308	1-439-097-00	HOT-6	
T5309	1-439-230-00	LOT-3	
T5310	1-439-229-00	LOT-4	
	1-533-087-00	Holder, fuse	

EB BOARD

	♠1-601-333-00	EB Board	E-206

CAPACITORS

C501	1-123-333-00	100 25V elect	
C502–505	1-123-329-00	10 25V elect	
C506	1-108-369-00	0.0022 100V mylar	
C507	1-108-379-00	0.0015 100V mylar	

TRANSISTORS

Q501	8-729-663-47	2SC1364	
⇒Q502	8-729-612-77	2SA1027R	
Q503	8-729-307-82	2SD478	

RESISTORS

R509	1-214-172-00	47k ¼W metal	
R510	1-214-156-00	10k ¼W metal	
R514	1-213-130-00	82 1W metal oxide (nonflammable)	
RV501	1-224-646-XX	22k, adjustable; H. SUB BOW	
RV502	1-224-646-XX	22k, adjustable; H. SUB SKEW	

TRANSFORMER

T501	1-421-371-00	Ferrite	

F BOARD

	♠A-1240-217-A	F Board, complete	E-351

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

Ref. No.	*Part No.*	*Description*			*Remark*
C6101–C6103	⚠1-130-087-00	0.1	300V	film	
C6104–C6107	1-102-189-00	0.0047	125V		
C6108,6109	1-123-031-00	2200	35V	elect	
C6110	1-121-423-00	220	50V	elect	
C6112	1-121-450-00	2.2	50V	elect	
C6115–C6117	⚠1-102-222-00	1000p	250V		
C6118	1-125-183-00	3300	35V	elect	
C6119	⚠1-102-222-00	1000p	250V		
C6120	1-108-745-00	0.22	300V	film	

DIODES

D6101	8-719-851-51	S5151	
D6102	8-719-801-51	S5151R	
D6103–D6106	8-719-911-55	U05G	
D6107	8-719-200-02	10E2	
D6109	8-719-200-02	10E2	
F6101	⚠1-532-325-00	Fuse, 6.3AT	
F6102	⚠1-532-078-00	Fuse, 1AT	
F6103	⚠1-532-286-00	Fuse, 2.5AT	
F6104	⚠1-532-285-00	Fuse, 1.25AT	

RESISTORS

R6101	⚠1-202-723-00	2.2M	½W	composition
R6102	1-206-765-11	47k	3W	metal oxide (nonflammable)
R6103	1-244-895-00	8.2k	½W	carbon
R6104	1-206-495-11	2.2	3W	metal oxide (nonflammable)
RL6101	⚠1-515-265-00	Relay		

TRANSFORMERS

T6101	⚠1-421-372-11	LFT-1	
T6102	⚠1-421-372-11	LFT-2	
T6103	⚠1-421-372-11	LFT-3	
T6104	⚠1-421-372-11	LFT-4	
	1-533-087-00	Holder, fuse	

GA BOARD

	♦A-1316-005-A	GA Board, complete	E-203

CAPACITORS

C601	1-123-005-00	22	250V	elect
C602	1-108-704-00	0.1	200V	mylar
C603	1-121-246-00	4.7	160V	elect
C604	1-121-757-00	33	160V	elect
C605	1-102-050-00	0.01	500V	
C606	1-121-411-00	47	50V	elect
C607	1-108-849-00	0.1		mylar
C608	1-121-738-00	10	50V	elect
C609	1-121-417-00	100	50V	elect

DIODES

⇒D601	8-719-200-02	10E2
⇒D602	8-719-931-08	EQB01-08
⇒D603	8-719-931-06	EQB01-06
⇒D604	8-719-900-93	V09C
F601	⚠1-532-279-00	Fuse, 0.5AT

COIL

L601	1-407-346-00	200μH

TRANSISTORS

⇒Q601	8-765-132-00	2SC867A
⇒Q602	8-765-170-01	2SC1962
Q603	8-760-413-10	2SC1475
⇒Q604	8-729-663-47	2SC1364

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R602	1-213-150-00	3.9k 1W metal oxide (nonflammable)	
R603	1-244-895-00	8.2k ½W carbon	
R604	1-213-125-00	33 1W metal oxide (nonflammable)	
R605	1-211-451-00	1k 1/8W carbon (nonflammable)	
R606	1-244-893-00	6.8k ½W carbon	
R609	1-206-757-00	22k 3W metal oxide (nonflammable)	
R610	1-211-427-00	100 1/8W carbon (nonflammable)	
R611, 612	1-244-921-00	100k ½W carbon	
R613	1-244-921-00	100k ½W carbon	
▣ R614, 615 ⚠	————	—— ¼W carbon	
R616, 617	1-206-498-00	33 3W metal oxide (nonflammable)	
R618	1-211-451-00	1k 1/8W carbon (nonflammable)	
R622	1-244-877-00	1.5k ½W carbon	
R623	1-211-427-00	100 1/8W carbon (nonflammable)	
RV601	1-224-641-XX	470, adjustable; 18V ADJ	
	1-533-087-00	Holder, fuse	

GB BOARD

Ref. No.	*Part No.*	*Description*	*Remark*
	♠ A-1311-037-A	GB Board, complete	E-153

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Remark*
C5101	1-121-391-00	1 50V elect	
C5102,5103	1-108-379-00	0.015 100V mylar	
C5104	1-121-415-00	100 16V elect	
C5105	1-108-385-00	0.047 100V mylar	
C5106	1-121-391-00	1 50V elect	
C5107	1-102-030-00	330p 500V	
C5108	1-121-395-00	4.7 25V elect	
C5109	1-108-638-00	0.1 100V mylar	
C5110	1-102-973-00	100p	
C5111,5112	1-108-911-00	0.0022 100V mylar	
C5113	1-102-973-00	100p	
C5114	1-121-396-00	4.7 50V elect	
C5115	1-121-404-00	33 25V elect	
C5116	1-108-704-00	0.1 200V mylar	
C5117	1-121-757-00	33 160V elect	
C5118	1-108-385-00	0.047 100V mylar	
C5119	1-102-963-00	33p	
C5120	1-102-244-00	220p 500V	
C5121	1-108-385-00	0.047 100V	
C5122	1-102-963-00	33p	
C5123	1-102-030-00	330p 500V	
C6201,6202	1-121-757-00	33 160V elect	
C6203	1-108-427-00	0.033 200V mylar	
C6204	1-108-546-00	1.5 400V mylar	
C6205	1-108-907-00	2.2 200V mylar	
C6206	1-108-646-00	0.47 100V mylar	
C6207	1-108-833-00	0.0047 mylar	
C6208	1-121-404-00	33 25V elect	
C6209	1-108-845-00	0.047 mylar	
C6210	1-121-404-00	33 25V elect	
C6211	1-121-450-00	2.2 50V elect	
C6212	1-121-416-00	100 25V elect	
C6213	1-121-421-00	220 16V elect	
C6214	1-121-450-00	2.2 50V elect	
C6215	1-121-391-00	1 50V elect	
C6216,6217	1-121-738-00	10 50V elect	

DIODES

Ref. No.	*Part No.*	*Description*	*Remark*
D5101–D5104	8-719-815-55	1S1555	
⇒D6201	8-719-931-10	EQB01-10	
⇒D6202–⇒D6204	8-719-900-93	V09C	
⇒D6205	8-719-930-11	EQB01-11Z	
D6206	8-719-815-55	1S1555	

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Ref. No.	*Part No.*	*Description*	*Remark*
⇒D6207	8-719-931-10	EQB01-10	
⇒D6208,6209	8-719-900-93	V09C	
D6210– D6213	8-719-815-55	1S1555	
D6214	8-719-901-24	Thyristor, CV12E	
D6215	8-719-815-55	1S1555	
D6216	8-719-200-02	10E2	
F6201	⚠1-532-259-00	Fuse, 1.6AT	
		COILS	
L6201,6202	1-407-720-00	100μH	
		TRANSITORS	
⇒Q5101– ⇒Q5103	8-729-663-47	2SC1364	
Q5104,5105	8-729-372-31	2SC1723	
Q6201	8-729-307-82	2SD478	
Q6202	8-729-309-06	2SC1890A	
Q6203	8-729-307-82	2SD478	
⇒Q6204– ⇒Q6206	8-729-663-47	2SC1364	
⇒Q6207	8-729-612-77	2SA1027R	
⇒Q6208	8-729-663-47	2SC1364	
Q6209	8-729-309-06	2SC1890A	
⇒Q6210	8-729-612-77	2SA1027R	
⇒Q6211,6212	8-729-663-47	2SC1364	
Q6213	8-760-413-10	2SC1475	
		RESISTORS	
R5108	1-206-707-00	180 3W metal oxide (nonflammable)	
R5111	1-213-150-00	3.9k 1W metal oxide (nonflammable)	
R5120	1-206-717-00	470 3W metal oxide (nonflammable)	
R5123	1-206-678-00	3.9k 2W metal oxide (nonflammable)	
R5124	1-217-005-00	0.68 3W wirewound (nonflammable)	
R5127	1-206-670-00	1.8k 2W metal oxide (nonflammable)	
R5128	1-217-003-00	0.47 3W wirewound (nonflammable)	
R5129	1-206-749-00	10k 3W metal oxide (nonflammable)	
R5130	1-206-648-00	10k 2W metal oxide (nonflammable)	
R6201	1-206-745-00	6.8k 3W metal oxide (nonflammable)	
R6203	1-211-651-00	3.6k ½W carbon (nonflammable)	
R6204	1-244-933-00	330k ½W carbon (nonflammable)	
R6205	1-247-040-00	1k 1/8W carbon (nonflammable)	
R6206	1-214-180-00	100k 1% metal oxide	
■R6207,6208⚠	———	—— ¼W carbon	
R6209	1-247-040-00	1k 1/8W carbon (nonflammable)	
R6210	1-214-179-00	91k 1% metal oxide	
■R6211,6212⚠	———	—— ¼W carbon	
R6216	1-244-893-00	6.8k ½W carbon	
R6220	1-213-163-00	47k 1W metal oxide (nonflammable)	
R6222	1-213-161-00	33k 1W metal oxide (nonflammable)	
R6232	1-211-930-00	33 1/8W carbon (nonflammable)	
R6235	1-206-725-00	1k 3W metal oxide (nonflammable)	
R6237	1-214-163-00	20k 1% metal oxide	
R6241	1-247-033-00	100 1/8W carbon (nonflammable)	
RV5101	1-224-646-XX	22k, adjustable; H HOLD	
		TRANSFORMERS	
T5101	1-437-076-00	HDT-1	
T5102	1-437-076-00	HDT	

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Ref. No.	*Part No.*	*Description*	*Remark*

GC BOARD

	♠A-1311-043-A	GC Board, complete	E-152

CAPACITORS

C801	1-108-546-00	1.5 400V mylar	
C802–805	⚠1-129-924-00	0.016 1.5kV film	
C806, 807	1-108-546-00	1.5 400V mylar	
C808	1-108-704-00	0.1 200V mylar	

DIODES

D801, 802	8-719-302-22	SB-2B	
L801	1-421-350-00	Coil, ferrite chork; H.C.A	
NL801	1-519-013-13	Discharge Tube	

RESISTORS

R801, 802	1-206-487-00	1 3W metal oxide (nonflammable)	
R812, 813	1-217-001-00	0.33 3W wirewound (nonflammable)	

HB BOARD

	♠1-587-481-00	HB Board	E-360

CAPACITOR

C5451	1-129-942-00	0.0027 1.5kV	

RESISTORS

R5451–R5453	1-202-723-00	2.2M ½W composition	
R5454	1-202-621-00	100k ½W composition	
RV5451	1-226-114-00	2.2M, adjustable; SCRN-B	
RV5452	1-226-114-00	2.2M, adjustable; SCRN-G	
RV5453	1-226-114-00	2.2M, adjustable; SCRN-R	

HA BOARD

	♠1-600-127-00	HA Board	E-106
S9101A–C	1-552-017-21	Switch, 3-key; PAL, SECAM, NTSC4.43	

HC BOARD

	♠1-600-140-00	HC Board	E-107

COIL

L9201	1-407-161-XX	22μH	

RESISTORS

RV9201	1-224-015-00	1k, variable; PICTURE	
RV9202	1-224-017-00	5k, variable; BRIGHT	
RV9203	1-224-017-00	5k, variable; COLOR	
RV9204	1-224-016-00	3k-U, variable; HUE	

HD BOARD

	♠1-600-141-00	HD Board	E-108

CAPACITORS

C9301	1-121-398-00	10 25V elect	
C9302	1-121-391-00	1 50V elect	
C9303	1-121-404-00	33 25V elect	
C9304	1-108-366-00	0.0012 100V mylar	
C9306	1-108-381-00	0.022 100V mylar	
C9307	1-121-416-00	100 25V elect	

RESISTORS

RV9301	1-224-144-00	50-D, variable; VOLUME	
RV9302	1-224-144-00	50-D, variable; TONE	

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HE BOARD

Ref. No.	*Part No.*	*Description*			*Remark*
	♦1-600-142-00	HE Board			E-109

DIODE

Ref. No.	*Part No.*	*Description*			*Remark*
D9401	8-719-301-03	SEL103R			

Z BOARD

Ref. No.	*Part No.*	*Description*			*Remark*
	♦1-600-143-00	Z Board			E-110

CAPACITORS

Ref. No.	*Part No.*	*Description*			*Remark*
C51, 52	1-121-392-00	3.3	25V	elect	
C53	1-121-352-00	47	10V	elect	

TRANSISTOR

Ref. No.	*Part No.*	*Description*			*Remark*
Q51	8-729-665-47	2SC1362			

Q BOARD

Ref. No.	*Part No.*	*Description*			*Remark*
	♦A-1270-064-A	Q Board, complete			E-111

CAPACITORS

Ref. No.	*Part No.*	*Description*			*Remark*
C401	1-121-651-00	10	16V	elect	
C404	1-102-947-00	10p			
C405	1-102-978-00	220p			
C406	1-121-651-00	10	16V	elect	
C407	1-121-395-00	4.7	25V	elect	
C408	1-121-651-00	10	16V	elect	
C409	1-102-947-00	10p			
C410	1-102-978-00	220p			
C411	1-121-651-00	10	16V	elect	
C412	1-121-395-00	4.7	25V	elect	
C413	1-121-657-00	1000	25V	elect	
C414	1-121-422-00	220	25V	elect	
C415	1-121-651-00	10	16V	elect	
C417	1-121-480-00	22	25V	elect	
C418	1-121-651-00	10	16V	elect	
C420	1-121-480-00	22	25V	elect	
C421	1-102-836-00	470p			
C422	1-121-398-00	10	25V	elect	
C423	1-121-391-00	1	50V	elect	
C424	1-121-651-00	10	16V	elect	
C425	1-121-391-00	1	50V	elect	
C426	1-102-121-00	0.0022			
C427	1-121-651-00	10	16V	elect	
C428	1-102-121-00	0.0022			
C430	1-121-421-00	220	16V	elect	
C431	1-108-638-00	0.1	100V	mylar	
C432	1-121-361-00	470	35V	elect	
C433	1-121-403-00	33	16V	elect	
C434	1-108-365-00	0.001	100V	mylar	
C435	1-102-976-00	180p			
C436	1-121-421-00	220	16V	elect	
C437	1-102-953-00	18p			
C438	1-121-415-00	100	16V	elect	
C439	1-121-733-00	470	25V	elect	

DIODES

Ref. No.	*Part No.*	*Description*			*Remark*
D401	8-719-815-55	1S1555			
⇒D402	8-719-815-85	1S1585			
D403, 404	8-719-122-00	VD1220			
F401	⚠1-532-284-00	Fuse, 630mAT 250V			

IC

Ref. No.	*Part No.*	*Description*			*Remark*
IC401	8-759-600-95	CX095C			

TRANSISTORS

Ref. No.	*Part No.*	*Description*			*Remark*
⇒Q401–404	8-729-663-47	2SC1364			
Q405	8-729-300-62	2SD666A			
⇒Q406–410	8-729-663-47	2SC1364			
⇒Q411	8-729-612-77	2SC1027R			
Q412	8-725-412-00	2SC1124			

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Ref. No.	*Part No.*	*Description*	*Remark*
Q413	8-729-316-12	2SC1061	
Q414	8-729-317-12	2SA671	

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R423	1-213-138-00	390 1W metal oxide (nonflammable)	
R451	1-244-859-00	270 ½W carbon	
R462	1-213-133-00	150 1W metal oxide (nonflammable)	
R463	1-213-131-00	100 1W metal oxide (nonflammable)	
R465	1-212-367-00	3.9 1W metal oxide (nonflammable)	
R467, 468	1-212-356-00	0.47 1W metal oxide (nonflammable)	
R471	1-206-447-00	2.2 2W metal oxide (nonflammable)	
	1-533-087-00	Holder, fuse	

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*	*Remark*
C6113,6114	1-125-099-00	560+10x2 200V elect	E-354
CNJ901	1-509-095-00	8P Multi Socket, VTR	E-102
DC851	⚠1-453-080-YY	High-voltage block	E-361
F6202	⚠1-532-233-31	Fuse, 63mAT	
J901, 903	1-509-851-00	BNC Connector, VIDEO IN	E-103
J902, 904	1-507-412-XX	Mini Jack, AUDIO IN	E-101
L5502–L5504	⚠1-451-166-00	Deflection Yoke, DY	E-301
L5507,5508	⚠1-452-203-21	Neck Ass'y, picture tube	E-303
L5509	⚠1-452-203-11	Neck Ass'y, picture tube	E-304
M601	⚠1-541-141-00	Ventilator, 1B-625F	E-308
Q605, 606	8-729-311-42	2SC1114	E362,363
Q607	8-765-132-00	2SC867A	E-207
Q801	8-729-372-51	2SD725	E-154
Q5329	8-729-372-51	2SD725	E-155
Q6214	8-729-301-62	2SC1116A	E-364
R626, 627	1-205-526-00	220 40W cement (nonflammable)	E-358
S601	1-532-548-00	Sensor, fan stop	E-302
S901	1-516-502-11	Switch, pusubutton; LINE-1,2	E-104
S902	1-516-286-00	Switch, pushbutton; HATCH	E-305
S6101	⚠1-552-141-00	Switch, pushbutton; POWER ALL OFF	E-105
S6102	1-516-463-XX	Switch, miniature; POWER	
S6103	⚠1-526-572-00	Socket, voltage select	E-352
SP901	1-502-753-00	Speaker, 8Ω	E-51
T801, 802	⚠1-439-228-00	Transformer Ass'y, flyback; FBT-1, 2	E-355
T6105	⚠1-446-316-00	Transformer, power; PT	E-352
V901G	⚠8-738-601-05	Picture Tube, SD-102G	E-312
V901B	⚠8-738-602-05	Picture Tube, SD-102B	E-310
V901R	⚠8-738-603-05	Picture Tube, SD-102R	E-311
CNJ902	⚠1-509-547-00	Connector, 3P; AC IN	E-356
	1-507-176-XX	1P Pin Jack	
	1-533-072-13	Holder, fuse	
	⚠1-534-849-00	Lead Ass'y, high-voltage	E-306
	1-536-378-XX	L-Type Terminal Strip	E-359

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*	*Remark*
X-4332-236-0	Base Ass'y, carton; projector	
X-4500-007-1	Polishing Cloth	
1-551-258-11 ⚠	Cord, power	E-353
3-701-360-02	Label, tack	
3-701-630-00	Bag, polyethylene	
4-332-293-00	Bag, protection; screen (KP-5010PS)	
4-332-294-00	Cushion (A), screen (KP-5010PS)	
4-332-295-00	Cushion (B), screen (KP-5010PS)	
4-333-216-00	Sheet, protection; screen	
4-333-266-00	Reinforcement, projector	
4-333-267-00	Bag, protection; projector	
4-333-273-00	Cushion, left upper; projector	
4-333-274-00	Cushion, right upper; projector	
4-333-275-00	Cushion, lower; projector	
4-333-278-00	Bag, protection; screen (KP-7210PS)	
4-333-279-00	Reinforcement, screen (KP-7210PS)	
4-333-280-00	Box, screen pole (KP-7210PS)	
4-333-281-00	Sleeve, screen pole (KP-7210PS)	
4-333-282-00	Holder (A), screen (KP-7210PS)	
4-333-283-00	Holder (B), screen (KP-7210PS)	
4-333-284-00	Holder (C), screen (KP-7210PS)	
4-333-285-00	Cushion (A), screen (KP-7210PS)	
4-333-286-00	Cushion (B), screen (KP-7210PS)	
4-333-906-00	Label, screen (KP-7210PS)	
4-333-907-00	Label, screen (KP-5010PS)	
4-333-914-00	Carton, screen (KP-5010PS)	
4-333-915-00	Carton, projector (KP-5010PS)	
4-333-916-00	Carton, screen (KP-7210PS)	
4-333-917-00	Carton, projector (KP-7210PS)	
4-333-918-00	Sheet, protection; pole (KP-5010PS)	
4-333-921-00	Reinforcement, screen (KP-5010PS)	
4-333-925-00	Reinforcement (A), screen (KP-5010PS)	
4-333-927-00	Label, caution	
4-333-928-00	Cover, screen (KP-7210PS)	
4-333-929-00	Cover, screen (KP-5010PS)	
4-495-818-11	Manual, instruction	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS

Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw: – P 3 x 10

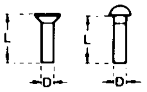
L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).



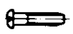
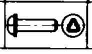
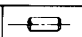
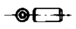
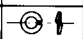
Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

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SONY
COLOR VIDEO PROJECTION SYSTEM

KP-5010PS
KP-7210PS

Chassis No.
KP-5010PS : SCC-208A-B
KP-7210PS : SCC-209A-B

AEP Model

CAUTION

- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SAFETY-RELATED COMPONENT WARNING !!

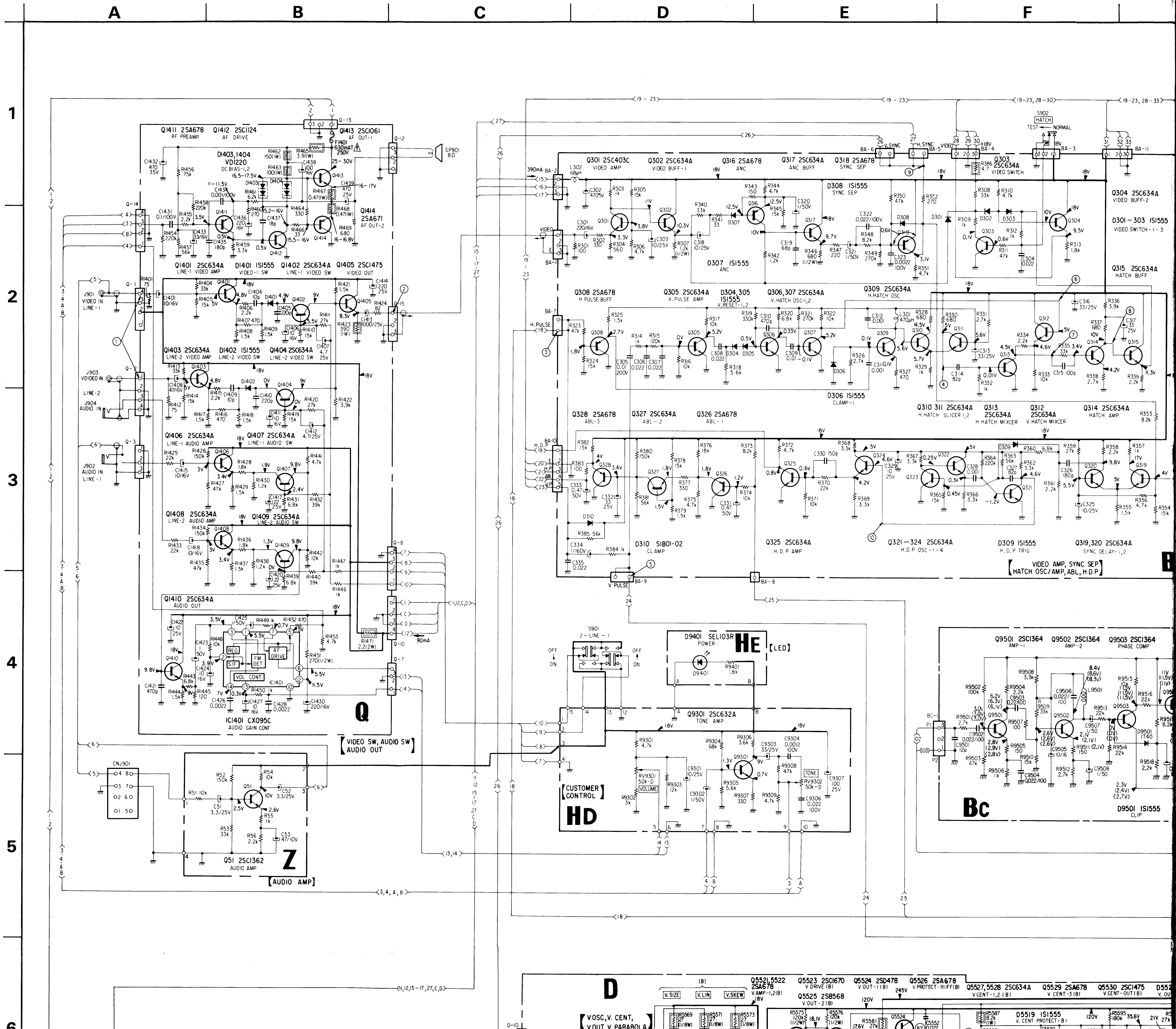
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

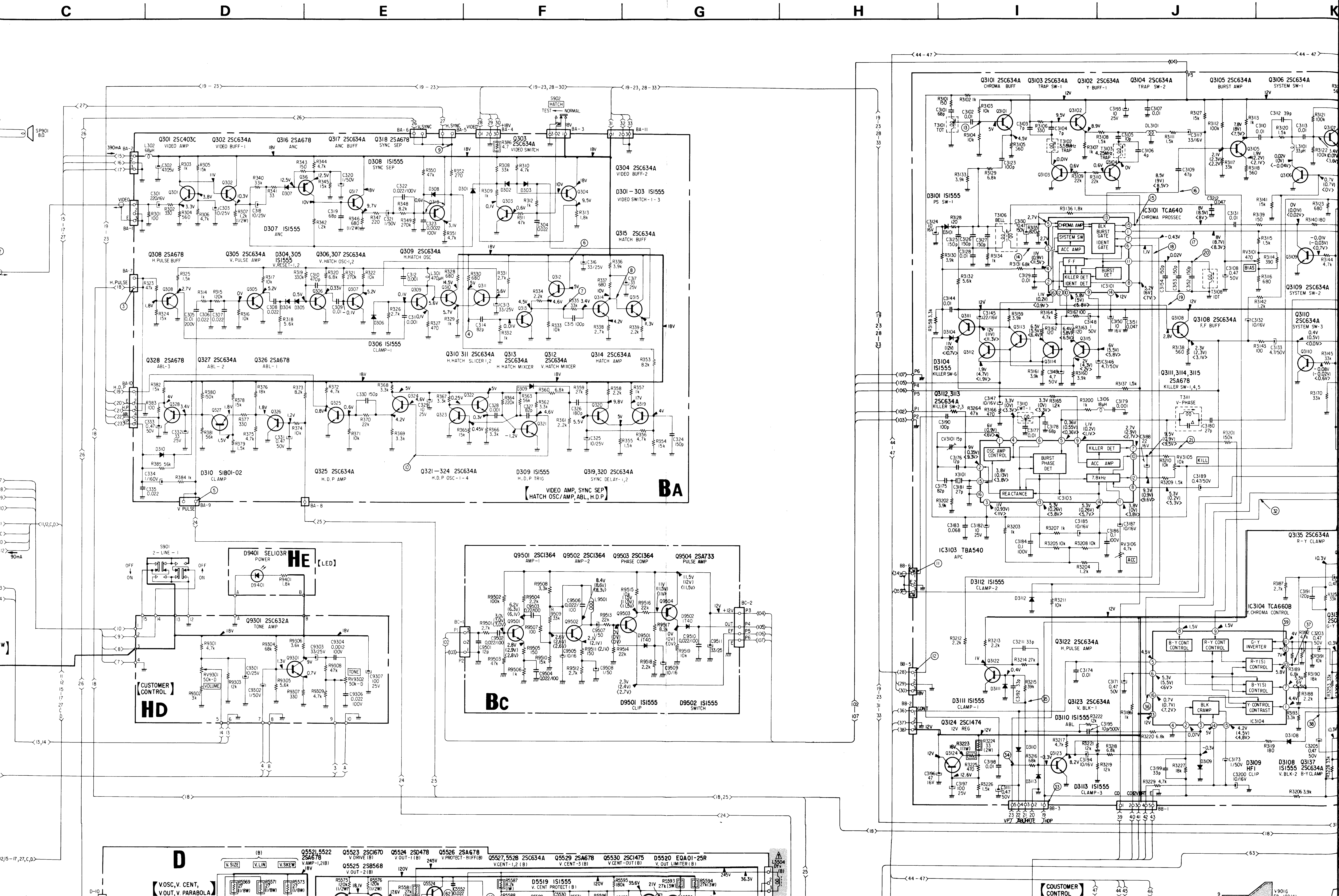
SICHERHEITSHINWEIS FÜR KOMPONENTEN !!

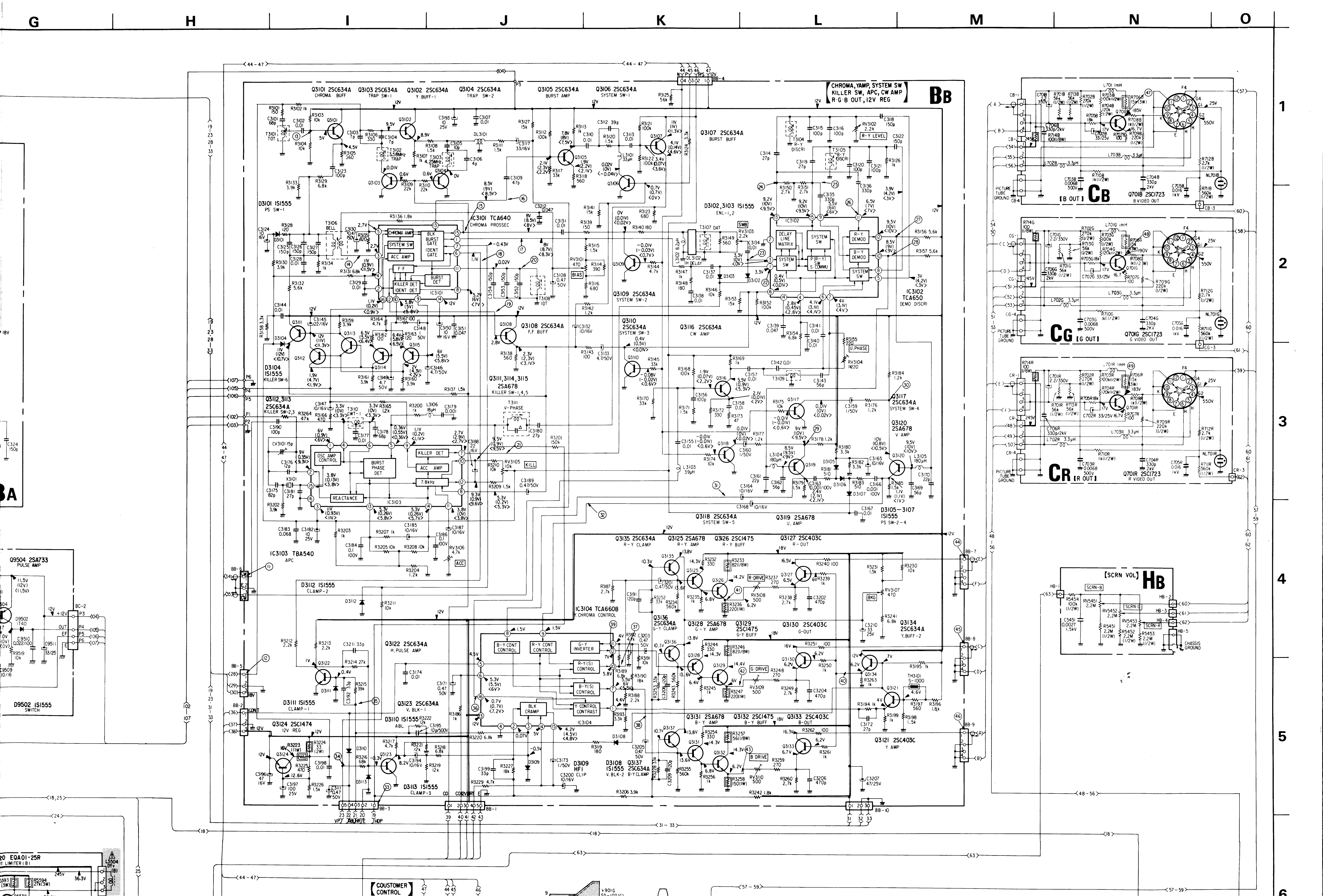
DIE IN DEN SCHALTBILDERN, DEN IN EINZELTEILE AUFGELÖSTEN PERSPEKTIVISCHEN ZEICHNUNGEN UND DEN TEILELISTEN SCHRAFFIERT EINGEZEICHNETE UND DURCH DAS ZEICHEN ⚠ GEKENNZEICHNETE KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IN DIESEM HANDBUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEGEBEN SIND.
AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN.
BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

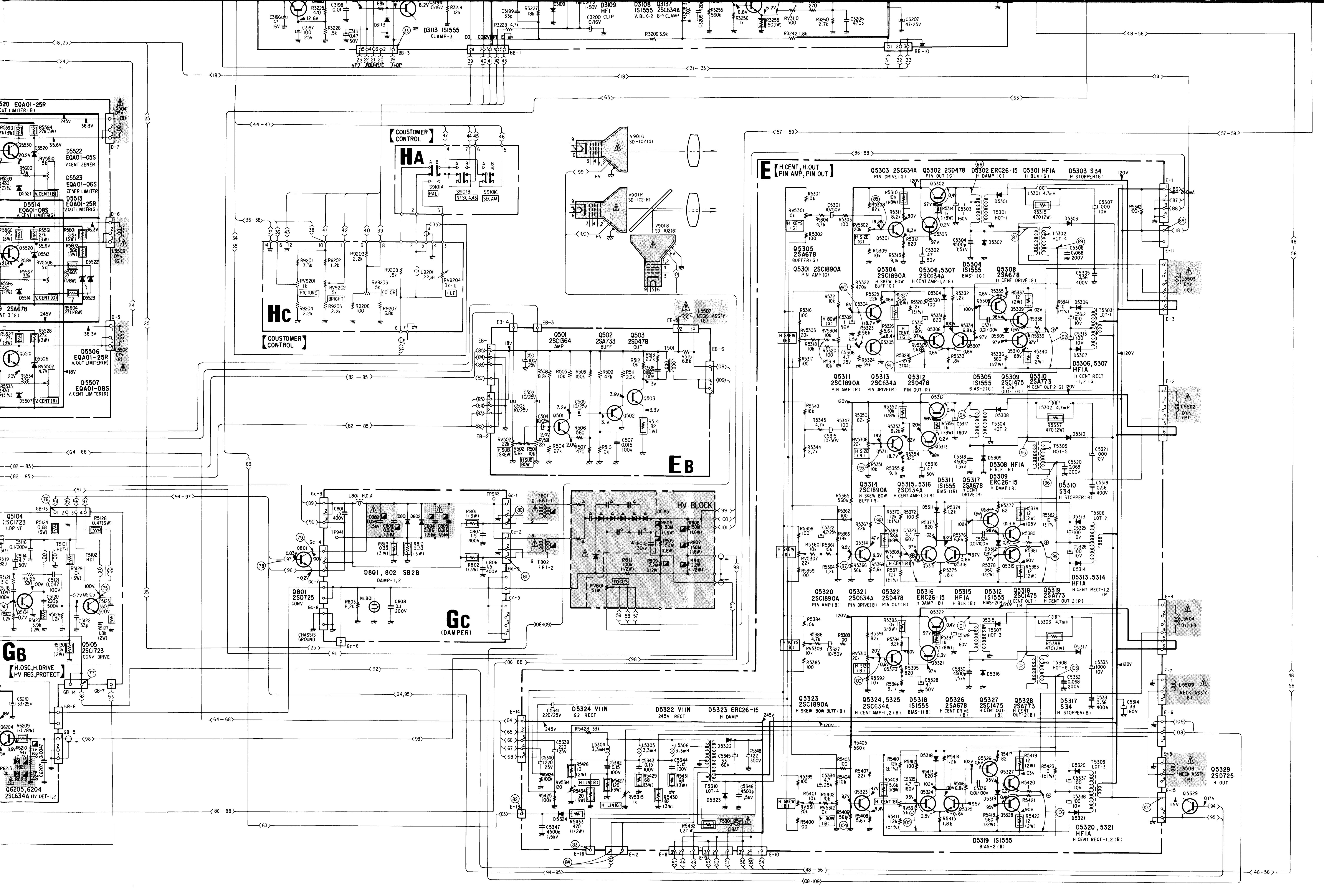
DIE BESCHLEUNIGUNGSSPANNUNG DARF NICHT ERHÖHT WERDEN, DAMIT KEINE SCHÄDLICHEN

SCHEMATIC DIAGRAM


A
B
C
D
E
F
1
2
3
4
5
6
Q1411 2SA678 AF PREAMP
Q1412 2SC1124 AF DRIVE
Q1413 2SC1061 AF OUT-1
Q1414 2SA671 AF OUT-2
SP901 8Ω
Q1401 2SC634A LINE-1 VIDEO AMP
D1401 1S1555 VIDEO-1 SW
Q1402 2SC634A LINE-1 VIDEO SW
Q1405 2SC1475 VIDEO OUT
J901 VIDEO IN LINE-1
Q1403 2SC634A LINE-2 VIDEO AMP
D1402 1S1555 LINE-2 VIDEO SW
Q1404 2SC634A LINE-2 VIDEO SW
J903 VIDEO IN LINE-2
J904 AUDIO IN
Q1406 2SC634A LINE-1 AUDIO AMP
Q1407 2SC634A LINE-1 AUDIO SW
J902 AUDIO IN LINE-1
Q1408 2SC634A LINE-2 AUDIO AMP
Q1409 2SC634A LINE-2 AUDIO SW
Q1410 2SC634A AUDIO OUT
IC1401 CX095C AUDIO GAIN CONT
Q
VIDEO SW, AUDIO SW AUDIO OUT
CNJ901
Q51 2SC1362 AUDIO AMP
Z
AUDIO AMP
Q301 2SC403C VIDEO AMP
Q302 2SC634A VIDEO BUFF-1
Q316 2SA678 ANC
Q317 2SC634A ANC BUFF
Q318 2SA678 SYNC SEP
Q303 2SC634A VIDEO SWITCH
Q304 2SC634A VIDEO BUFF-2
D301-303 1S1555 VIDEO SWITCH-1-3
Q315 2SC634A HATCH BUFF
S902 HATCH TEST NORMAL
D308 1S1555 SYNC SEP
D307 1S1555 ANC
Q308 2SA678 H.PULSE BUFF
Q305 2SC634A V.PULSE AMP
D304,305 1S1555 V.RESET-1,2
Q306,307 2SC634A V.HATCH OSC-1,2
Q309 2SC634A H.HATCH OSC
D306 1S1555 CLAMP-1
Q310 311 2SC634A H.HATCH SLICER 1,2
Q313 2SC634A H.HATCH MIXER
Q312 2SC634A V.HATCH MIXER
Q314 2SC634A HATCH AMP
Q328 2SA678 ABL-3
Q327 2SC634A ABL-2
Q326 2SA678 ABL-1
D310 S1B01-02 CLAMP
Q325 2SC634A H.D.P AMP
Q321-324 2SC634A H.D.P OSC-1-4
D309 1S1555 H.D.P TRIG
Q319,320 2SC634A SYNC DELAY-1,2
VIDEO AMP, SYNC SEP HATCH OSC/AMP, ABL, H.D.P
S901 2-LINE-1
D9401 SEL103R POWER
HE
LED
Q9301 2SC632A TONE AMP
VOLUME
TONE
CUSTOMER CONTROL
HD
Q9501 2SC1364 AMP-1
Q9502 2SC1364 AMP-2
Q9503 2SC1364 PHASE COMP
D9501 1S1555 CLIP
Bc
D
VOSC, V. CENT, VOUT V. PARABOLA
Q5521,5522 2SA678 VAMP-1,2(B)
Q5523 2SC1670 V DRIVE (B)
Q5524 2SD478 V OUT-1 (B)
Q5525 2SB568 V OUT-2 (B)
Q5526 2SA678 V.PROTECT-BUFF(B)
Q5527,5528 2SC634A V.CENT-1,2 (B)
Q5529 2SA678 V.CENT-3 (B)
Q5530 2SC1475 V.CENT-OUT (B)
D5519 1S1555 V.CENT PROTECT (B)
V.SIZE
V.LIN
V.SKEW


C
D
E
F
G
H
I
J
K
BA
VIDEO AMP, SYNC SEP
HATCH OSC/AMP, ABL, H.D.P
Q301 2SC403C VIDEO AMP
Q302 2SC634A VIDEO BUFF-1
Q316 2SA678 ANC
Q317 2SC634A ANC BUFF
Q318 2SA678 SYNC SEP
D308 1S1555 SYNC SEP
Q303 2SC634A VIDEO SWITCH
Q304 2SC634A VIDEO BUFF-2
D301-303 1S1555 VIDEO SWITCH-1-3
D307 1S1555 ANC
Q315 2SC634A HATCH BUFF
Q308 2SA678 H.PULSE BUFF
Q305 2SC634A V.PULSE AMP
D304,305 1S1555 V.RESET-1,2
Q306,307 2SC634A V.HATCH OSC-1,2
Q309 2SC634A H.HATCH OSC
D306 1S1555 CLAMP-1
Q310 311 2SC634A H.HATCH SLICER 1,2
Q313 2SC634A H.HATCH MIXER
Q312 2SC634A V.HATCH MIXER
Q314 2SC634A HATCH AMP
Q328 2SA678 ABL-3
Q327 2SC634A ABL-2
Q326 2SA678 ABL-1
D310 S1B01-02 CLAMP
Q325 2SC634A H.D.P AMP
Q321-324 2SC634A H.D.P OSC-1-4
D309 1S1555 H.D.P TRIG
Q319,320 2SC634A SYNC DELAY-1,2
S902 HATCH TEST NORMAL
SP901 8Ω
HE [LED]
D9401 SEL103R POWER
HD
CUSTOMER CONTROL
Q9301 2SC632A TONE AMP
S901 2-LINE-1
OFF ON
RV9301 50k-D VOLUME
RV9302 50k-D TONE
BC
Q9501 2SC1364 AMP-1
Q9502 2SC1364 AMP-2
Q9503 2SC1364 PHASE COMP
Q9504 2SA733 PULSE AMP
D9501 1S1555 CLIP
D9502 1S1555 SWITCH
Q3101 2SC634A CHROMA BUFF
Q3103 2SC634A TRAP SW-1
Q3102 2SC634A Y BUFF-1
Q3104 2SC634A TRAP SW-2
Q3105 2SC634A BURST AMP
Q3106 2SC634A SYSTEM SW-1
D3101 1S1555 PS SW-1
IC3101 TCA640 CHROMA PROSSEC
CHROMA AMP
SYSTEM SW
ACC AMP
BLK BURST GATE IDENT GATE
F·F
KILLER DET IDENT DET
BURST DET
Q3109 2SC634A SYSTEM SW-2
Q3108 2SC634A F.F BUFF
Q3110 2SC634A SYSTEM SW-3
D3104 1S1555 KILLER SW-6
Q3112,3113 2SC634A KILLER SW-2,3
Q3111,3114,3115 2SA678 KILLER SW-1,4,5
T3111 V-PHASE
IC3103 TBA540 APC
OSC AMP CONTROL
BURST PHASE DET
KILLER DET
ACC AMP
7.8kHz
REACTANCE
KILL
ACC
D3112 1S1555 CLAMP-2
Q3135 2SC634A R-Y CLAMP
IC3104 TCA660B Y.CHROMA CONTROL
B-Y CONT CONTROL
R-Y CONT CONTROL
G-Y INVERTER
R-Y(S) CONTROL
B-Y(S) CONTROL
Y CONTROL CONTRAST
BLK CRAMP
Q3122 2SC634A H.PULSE AMP
D3111 1S1555 CLAMP-1
Q3123 2SC634A V.BLK-1
D3110 1S1555 ABL
Q3124 2SC1474 12V REG
D3113 1S1555 CLAMP-3
D3109 HF1
D3108 1S1555 V.BLK-2
Q3137 2SC634A B-Y CLAMP
D
V.OSC, V.CENT, V.OUT, V.PARABOLA
V.SIZE
V.LIN
V.SKEW
Q5521,5522 2SA678 V.AMP-1,2(B)
Q5523 2SC1670 V.DRIVE(B)
Q5524 2SD478 V.OUT-1(B)
Q5526 2SA678 V.PROTECT-BUFF(B)
Q5525 2SB568 V.OUT-2(B)
Q5527,5528 2SC634A V.CENT-1,2(B)
Q5529 2SA678 V.CENT-3(B)
Q5530 2SC1475 V.CENT-OUT(B)
D5520 EQA01-25R V.OUT LIMITER(B)
D5519 1S1555 V.CENT PROTECT(B)
L5504 DY
COUSTOMER CONTROL
V901G


G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
BB
CHROMA, YAMP, SYSTEM SW
KILLER SW, APC, CW AMP
R·G·B OUT, 12V REG
Q3101 2SC634A CHROMA BUFF
Q3103 2SC634A TRAP SW-1
Q3102 2SC634A Y BUFF-1
Q3104 2SC634A TRAP SW-2
Q3105 2SC634A BURST AMP
Q3106 2SC634A SYSTEM SW-1
Q3107 2SC634A BURST BUFF
D3101 1S1555 PS SW-1
IC3101 TCA640 CHROMA PROSSEC
D3102,3103 1S1555 ENL-1,2
IC3102 TCA650 DEMO DISCRI
Q3108 2SC634A F.F BUFF
Q3109 2SC634A SYSTEM SW-2
Q3110 2SC634A SYSTEM SW-3
Q3116 2SC634A CW AMP
D3104 1S1555 KILLER SW-6
Q3112,3113 2SC634A KILLER SW-2,3
Q3111,3114,3115 2SA678 KILLER SW-1,4,5
IC3103 TBA540 APC
Q3117 2SC634A SYSTEM SW-4
Q3120 2SA678 V AMP
Q3118 2SC634A SYSTEM SW-5
Q3119 2SA678 U. AMP
D3105~3107 1S1555 PS SW-2~4
D3112 1S1555 CLAMP-2
Q3122 2SC634A H.PULSE AMP
Q3123 2SC634A V. BLK-1
D3111 1S1555 CLAMP-1
D3110 1S1555 ABL
D3113 1S1555 CLAMP-3
Q3124 2SC1474 12V REG
D3109 HF1 C3200 CLIP
IC3104 TCA660B Y,CHROMA CONTROL
D3108 1S1555 V. BLK-2
Q3137 2SC634A B-Y CLAMP
Q3135 2SC634A R-Y CLAMP
Q3125 2SA678 R-Y AMP
Q3126 2SC1475 R-Y BUFF
Q3127 2SC403C R-OUT
Q3136 2SC634A G-Y CLAMP
Q3128 2SA678 G-Y AMP
Q3129 2SC1475 G-Y BUFF
Q3130 2SC403C G-OUT
Q3131 2SA678 B-Y AMP
Q3132 2SC1475 B-Y BUFF
Q3133 2SC403C B-OUT
Q3134 2SC634A Y.BUFF-2
Q3121 2SC403C Y AMP
CHROMA AMP
SYSTEM SW
ACC AMP
BLK BURST GATE IDENT GATE
F F
KILLER DET
IDENT DET
BURST DET
DELAY LINE MATRIX
SYSTEM SW
R-Y DEMOD
B-Y DEMOD
P(R-Y) SW S COMMU
OSC AMP CONTROL
BURST PHASE DET
KILLER DET
ACC AMP
7.8kHz
REACTANCE
B-Y CONT CONTROL
R-Y CONT CONTROL
G-Y INVERTER
R-Y(S) CONTROL
B-Y(S) CONTROL
Y CONTROL CONTRAST
BLK CRAMP
T3101 TOT
T3102 3.58MHz TRAP
T3103 4.25MHz TRAP
T3104 R-Y DISCRI
T3105 B-Y DISCRI
T3106 BELL
T3107 DAT
T3108 IDT
T3109 CW
T3110 CWT-1
T3111 V-PHASE
DL3101
DL3102 1H DELAY
RV3101 470 BIAS
RV3102 2.2k R-Y LEVEL
RV3103 2.2k SMB
RV3104 1k220 U. PHASE
RV3105 10k KILL
RV3106 4.7k ACC
RV3107 470 BKG
RV3108 500 R-DRIVE
RV3109 500 G DRIVE
RV3110 500 B DRIVE
TH3101 S-1000
BB-1
BB-2
BB-3
BB-4
BB-5
BB-6
BB-7
BB-8
BB-9
BB-10
CB
[B OUT]
Q701B 2SC1723 B VIDEO OUT
CG
[G OUT]
Q701G 2SC1723 G VIDEO OUT
CR
[R OUT]
Q701R 2SC1723 R VIDEO OUT
PICTURE TUBE GROUND
F4
25V
550V
HB
[SCRN VOL]
SCRN-B
SCRN-G
SCRN-R
RV5451 2.2M
RV5452 2.2M
RV5453 2.2M
CHASSIS GROUND
BA
Q9504 2SA733 PULSE AMP
D9502 1S1555 SWITCH
BC-2
20 EQA01-25R
LIMITER (B)
COUSTOMER CONTROL


E [H.CENT, H.OUT PIN AMP, PIN OUT]
Q5303 2SC634A PIN DRIVE(G)
Q5302 2SD478 PIN OUT(G)
D5302 ERC26-15 H DAMP(G)
D5301 HF1A H BLK(G)
D5303 S34 H STOPPER(G)
Q5305 2SA678 BUFFER(G)
Q5301 2SC1890A PIN AMP(G)
Q5304 2SC1890A H SKEW BOW BUFFER(G)
Q5306,5307 2SC634A H CENT AMP-1,2(G)
D5304 1S1555 BIAS-1(G)
Q5308 2SA678 H CENT DRIVE(G)
D5306,5307 HF1A H CENT RECT-1,2(G)
Q5311 2SC1890A PIN AMP(R)
Q5313 2SC634A PIN DRIVE(R)
Q5312 2SD478 PIN OUT(R)
D5305 1S1555 BIAS-2(G)
Q5309 2SC1475 H CENT OUT-1(G)
Q5310 2SA773 H CENT OUT-2(G)
Q5314 2SC1890A H SKEW BOW BUFF(R)
Q5315,5316 2SC634A H CENT AMP-1,2(R)
D5311 1S1555 BIAS-1(R)
Q5317 2SA678 H CENT DRIVE(R)
D5308 HF1A H BLK(R)
D5309 ERC26-15 H DAMP(R)
D5310 S34 H STOPPER(R)
D5313,5314 HF1A H CENT RECT-1,2(R)
Q5320 2SC1890A PIN AMP(B)
Q5321 2SC634A PIN DRIVE(B)
Q5322 2SD478 PIN OUT(B)
D5316 ERC26-15 H DAMP(B)
D5315 HF1A H BLK(B)
D5312 1S1555 BIAS-2(R)
Q5318 2SC1475 H CENT OUT-1(R)
Q5319 2SA773 H CENT OUT-2(R)
Q5323 2SC1890A H SKEW BOW BUFF(B)
Q5324,5325 2SC634A H CENT AMP-1,2(B)
D5318 1S1555 BIAS-1(B)
Q5326 2SA678 H CENT DRIVE
Q5327 2SC1475 H CENT OUT-1(B)
Q5328 2SA773 H CENT OUT-2(B)
D5317 S34 H STOPPER(B)
D5319 1S1555 BIAS-2(B)
D5320,5321 HF1A H CENT RECT-1,2(B)
Q5329 2SD725 H OUT
D5324 V11N G2 RECT
D5322 V11N 245V RECT
D5323 ERC26-15 H DAMP
T5301 HOT-1
T5302 HLT-4
T5303 LOT-1
T5304 HOT-2
T5305 HOT-5
T5306 LOT-2
T5307 HOT-3
T5308 HOT-6
T5309 LOT-3
T5310 LOT-4
L5503 DYh (G)
L5502 DYh (R)
L5504 DYh (B)
L5509 NECK ASS'Y
L5508 NECK ASS'Y (B)
L5507 NECK ASS'Y (G)
EB
Q501 2SC1364 AMP
Q502 2SA733 BUFF
Q503 2SD478 OUT
H SUB SKEW
H SUB BOW
GC (DAMPER)
D801, 802 SB2B DAMP-1,2
Q801 2SD725 CONV
T801 FBT-1
T802 FBT-2
HV BLOCK
FOCUS
RV801 51M
CHASSIS GROUND
GB [H.OSC, H.DRIVE HV REG, PROTECT]
Q5104 2SC1723 H.DRIVE
Q5105 2SC1723 CONV DRIVE
T5101 HDT-1
T5102 HDT
Q6205,6204 2SC634A HV DET-1,2
HA
[COUSTOMER CONTROL]
S9101A PAL
S9101B NTSC4.43
S9101C SECAM
HC
[COUSTOMER CONTROL]
RV9201 1k PICTURE
RV9202 5k BRIGHT
RV9203 5k COLOR
RV9204 3k-U HUE
L9201 22μH
V901G SD-102(G)
V901R SD-102(R)
V901B SD-102(B)
D3113 1S1555 CLAMP-3
D3109 HF1
D3108 1S1555 V. BLK-2
Q3137 2SC634A B-Y CLAMP
D5522 EQA01-05S V.CENT ZENER
D5523 EQA01-06S ZENER LIMITER
D5513 EQA01-25R V.OUT LIMITER(G)
D5514 EQA01-08S V.CENT LIMITER(G)
D5506 EQA01-25R V.OUT LIMITER(R)
D5507 EQA01-08S V.CENT LIMITER(R)
L5504 DYv (B)
L5503 DYv (G)
L5502 DYv (R)

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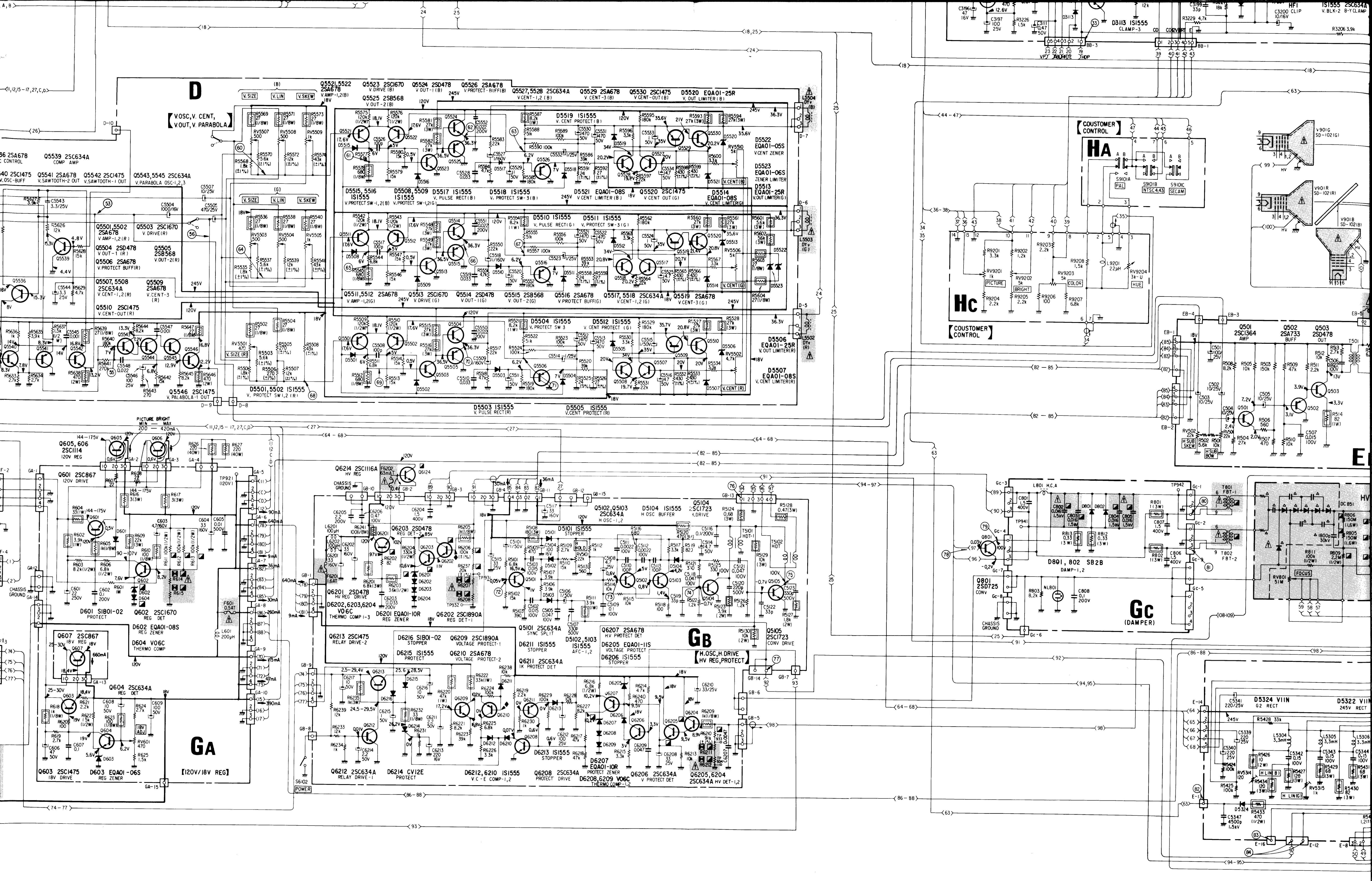

D
V.OSC, V. CENT, V.OUT, V. PARABOLA
V. SIZE
V. LIN
V. SKEW
Q5521, 5522 2SA678 V.AMP-1,2(B)
Q5523 2SC1670 V. DRIVE (B)
Q5524 2SD478 V.OUT-1(B)
Q5526 2SA678 V.PROTECT-BUFF(B)
Q5525 2SB568 V.OUT-2(B)
Q5527, 5528 2SC634A V.CENT-1,2(B)
Q5529 2SA678 V.CENT-3(B)
Q5530 2SC1475 V.CENT-OUT(B)
D5520 EQA01-25R V. OUT LIMITER (B)
D5519 1S1555 V. CENT PROTECT (B)
D5522 EQA01-05S V.CENT ZENER
D5523 EQA01-06S ZENER LIMITER
D5513 EQA01-25R V.OUT LIMITER(G)
D5514 EQA01-08S V.CENT LIMITER(G)
D5515, 5516 1S1555 V.PROTECT SW-1,2(B)
D5508, 5509 1S1555 V.PROTECT SW-1,2(G)
D5517 1S1555 V. PULSE RECT(B)
D5518 1S1555 V. PROTECT SW-3(B)
D5521 EQA01-08S V.CENT LIMITER (B)
Q5520 2SC1475 V.CENT OUT (G)
D5510 1S1555 V. PULSE RECT(G)
D5511 1S1555 V. PROTECT SW-3(G)
Q5511, 5512 2SA678 V AMP-1,2(G)
Q5513 2SC1670 V. DRIVE (G)
Q5514 2SD478 V.OUT-1(G)
Q5515 2SB568 V.OUT-2(G)
Q5516 2SA678 V.PROTECT BUFF(G)
Q5517, 5518 2SC634A V.CENT-1,2(G)
Q5519 2SA678 V.CENT-3(G)
D5504 1S1555 V. PROTECT SW 3
D5512 1S1555 V. CENT PROTECT (G)
D5506 EQA01-25R V.OUT LIMITER(R)
D5507 EQA01-08S V. CENT LIMITER(R)
D5501, 5502 1S1555 V. PROTECT SW1,2(R)
D5503 1S1555 V. PULSE RECT(R)
D5505 1S1555 V.CENT PROTECT (R)
V. SIZE (R)
Q5539 2SC634A COMP AMP
Q5541 2SA678 V.SAWTOOTH-2 OUT
Q5542 2SC1475 V.SAWTOOTH-1 OUT
Q5543, 5545 2SC634A V.PARABOLA OSC-1,2,3
Q5501, 5502 2SA678 V.AMP-1,2 (R)
Q5503 2SC1670 V. DRIVE (R)
Q5504 2SD478 V.OUT-1 (R)
Q5505 2SB568 V.OUT-2(R)
Q5506 2SA678 V.PROTECT BUFF (R)
Q5507, 5508 2SC634A V.CENT-1,2(R)
Q5509 2SA678 V.CENT-3 (R)
Q5510 2SC1475 V.CENT-OUT(R)
Q5546 2SC1475 V. PALABOLA-1 OUT
L5504 DY V (B)
L5503 DY V (G)
L5502 DY V (R)
PICTURE BRIGHT MIN — MAX 200 — 420mA
Q605, 606 2SC1114 120V REG
Q601 2SC867 120V DRIVE
D601 S1B01-02 PROTECT
Q602 2SC1670 REG DET
D602 EQA01-08S REG ZENER
D604 V06C THERMO COMP
Q607 2SC867 18V REG
Q604 2SC634A DET
Q603 2SC1475 18V DRIVE
D603 EQA01-06S REG ZENER
GA
[120V/18V REG]
F601 0.5AT
L601 200µH
CHASSIS GROUND
Q6214 2SC1116A HV REG
F6202 63mAT
Q6201 2SD478 HV REG DRIVE
D6202, 6203, 6204 V06C THERMO COMP 1-3
D6201 EQA01-10R REG ZENER
Q6202 2SC1890A REG DET-1
Q6203 2SD478 REG DET-2
F6201 1.6AT
Q6213 2SC1475 RELAY DRIVE-2
D6216 S1B01-02 STOPPER
D6215 1S1555 PROTECT
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
Q5101 2SC634A SYNC SPLIT
D6211 1S1555 STOPPER
Q6211 2SC634A IK PROTECT DET
D5102, 5103 1S1555 AFC-1,2
Q5102, Q5103 2SC634A H.OSC-1,2
D5104 1S1555 H.OSC BUFFER
Q5104 2SC1723 H.DRIVE
T5101 HDT-1
T5102 HDT
Q5105 2SC1723 CONV DRIVE
Q6207 2SA678 HV PROTECT DET
D6205 EQA01-11S VOLTAGE PROTECT
D6206 1S1555 STOPPER
GB
[H.OSC, H.DRIVE HV REG, PROTECT]
Q6212 2SC634A RELAY DRIVE-1
D6214 CV12E PROTECT
D6212, 6210 1S1555 V C-E COMP-1,2
D6213 1S1555 STOPPER
Q6208 2SC634A PROTECT DRIVE
D6207 EQA01-10R PROTECT ZENER
D6208, 6209 V06C THERMO COMP-1,2
Q6206 2SC634A V PROTECT DET
Q6205, 6204 2SC634A HV DET-1,2
S6102 POWER
D3113 1S1555 CLAMP-3
HF1
1S1555 2SC634A V. BLK-2 B-Y CLAMP
C3200 CLIP
[COUSTOMER CONTROL]
HA
S9101A PAL
S9101B NTSC4.43
S9101C SECAM
Hc
[COUSTOMER CONTROL]
RV9201 PICTURE
RV9202 BRIGHT
RV9203 COLOR
RV9204 HUE
L9201 22µH
V901G SD-102(G)
V901R SD-102(R)
V901B SD-102(B)
HV
Q501 2SC1364 AMP
Q502 2SA733 BUFF
Q503 2SD478 OUT
T501
H SUB SKEW
H SUB BOW
L801 H.C.A
T801 FBT-1
T802 FBT-2
D801, 802 SB2B DAMP-1,2
Q801 2SD725 CONV
NL801
Gc
(DAMPER)
RV801 5M
FOCUS
D5324 V11N G2 RECT
D5322 V11 245V RECT
L5304 3.3mH
L5305 3.3mH
L5306 3.3mH
H LIN(B)
H LIN(G)
RV5315
E

BUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEGEBEN SIND.
AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN.
BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

DIE BESCHLEUNIGUNGSSPANNUNG DARF NICHT ERHÖHT WERDEN, DAMIT KEINE SCHÄDLICHEN RÖNTGENSTRAHLUNGEN ERZEUGT WERDEN. SIE SOLL 27kV (MAX.) BETRAGEN.

GEPRÜFT NACH RÖNTGENVERORDNUNG V.1.3.76:
ZULASSUNGSSCHEIN NR.: HH/8/79/RÖ.

Note:

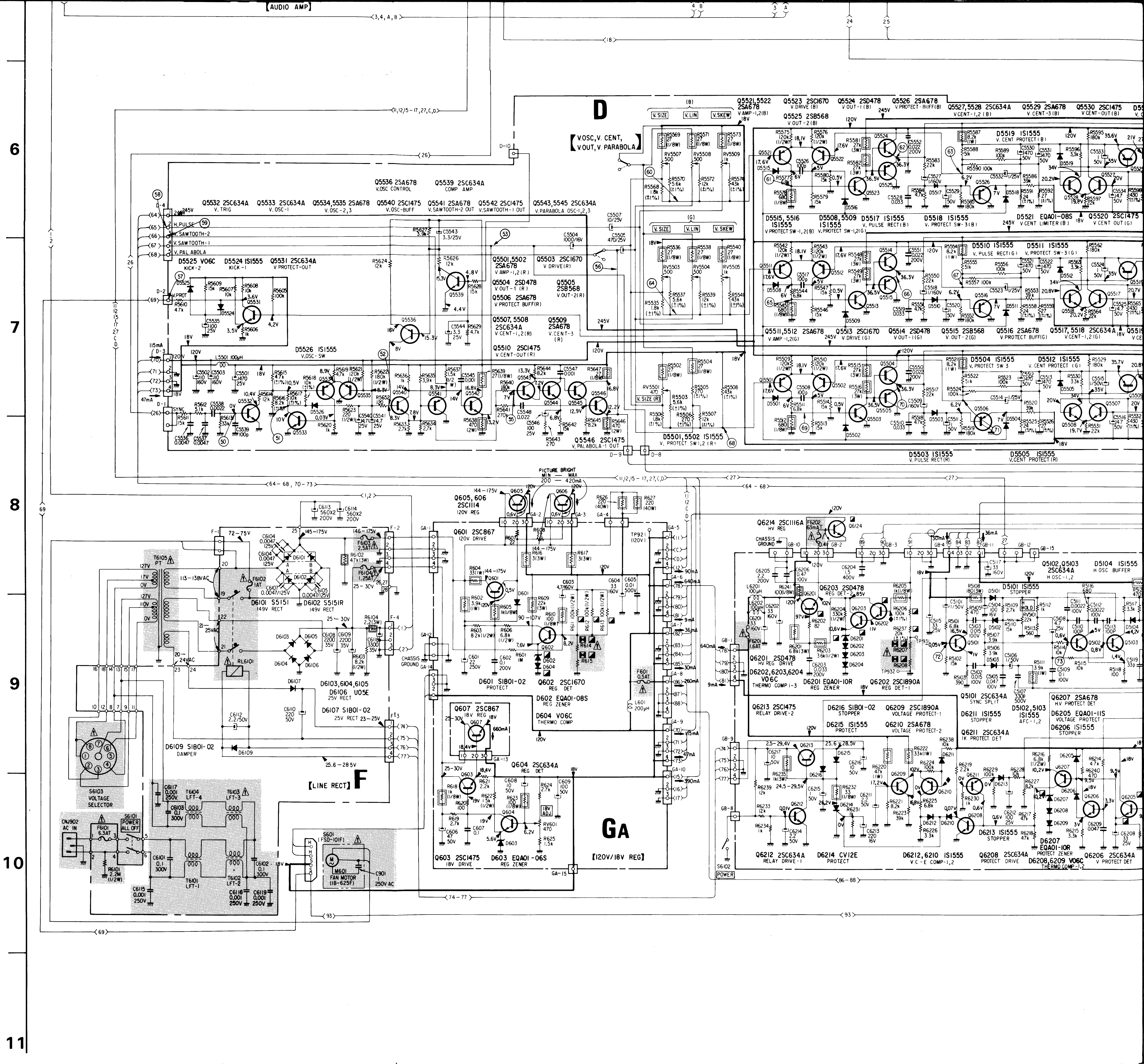
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. k : 1000Ω, M : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

  When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
  (Refer to R6211/R6212 Adjustment, R6207/R6208 Adjustment and R614/R615 Adjustment.)
  (On Page 28) (On Page 28) (On Page 26)

  When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set.
  Read the reference numbers of the Q board by adding 1000 to those indicated.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ⊘ : adjustable without removing cabinet.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar video signal input.
- Voltage variations may be noted due to normal production tolerances.
- ▬ : B+ bus.
- ◆ : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in Q board are taken with the LINE switch set to 1.
- Voltages in BB board are taken with PAL color-bar video signal input.
  ( ) : SECAM
  < > : NTSC 4.43MHz


6
7
8
9
10
11
AUDIO AMP
D
V.OSC, V. CENT, V.OUT, V. PARABOLA
F
LINE RECT
GA
120V/18V REG
CNJ902 AC IN
S6101 POWER ALL OFF
S6103 VOLTAGE SELECTOR
T6105 PT
RL6101
M601 FAN MOTOR (18-625F)
S601 (FSD-101F)
T6101 LFT-1
T6102 LFT-2
T6103 LFT-3
T6104 LFT-4
PICTURE BRIGHT MIN — MAX
Q605, 606 2SC1114 120V REG
Q601 2SC867 120V DRIVE
Q607 2SC867 18V REG
Q603 2SC1475 18V DRIVE
Q604 2SC634A REG DET
Q602 2SC1670 REG DET
D601 S1B01-02 PROTECT
D602 EQA01-08S REG ZENER
D603 EQA01-06S REG ZENER
D604 V06C THERMO COMP
D6101 S5151 149V RECT
D6102 S5151R 149V RECT
D6109 S1B01-02 DAMPER
D6103,6104,6105 D6106 U05E 25V RECT
D6107 S1B01-02 25V RECT
Q6214 2SC1116A HV REG
Q6201 2SD478 HV REG DRIVE
Q6203 2SD478 REG DET
Q6202 2SC1890A REG DET-1
Q6213 2SC1475 RELAY DRIVE-2
Q6212 2SC634A RELAY DRIVE-1
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
Q6208 2SC634A PROTECT DRIVE
Q6207 2SA678 HV PROTECT DET
Q6206 2SC634A V PROTECT DET
Q6211 2SC634A IK PROTECT DET
Q5101 2SC634A SYNC SPLIT
Q5102,Q5103 2SC634A H OSC-1,2
D5104 1S1555 H OSC BUFFER
D5101 1S1555 STOPPER
D5102,5103 1S1555 AFC-1,2
S6102 POWER